

O I P E  
M A Y 1 3 2008  
P A T E N T & T R A D E M A R K O F F I C E

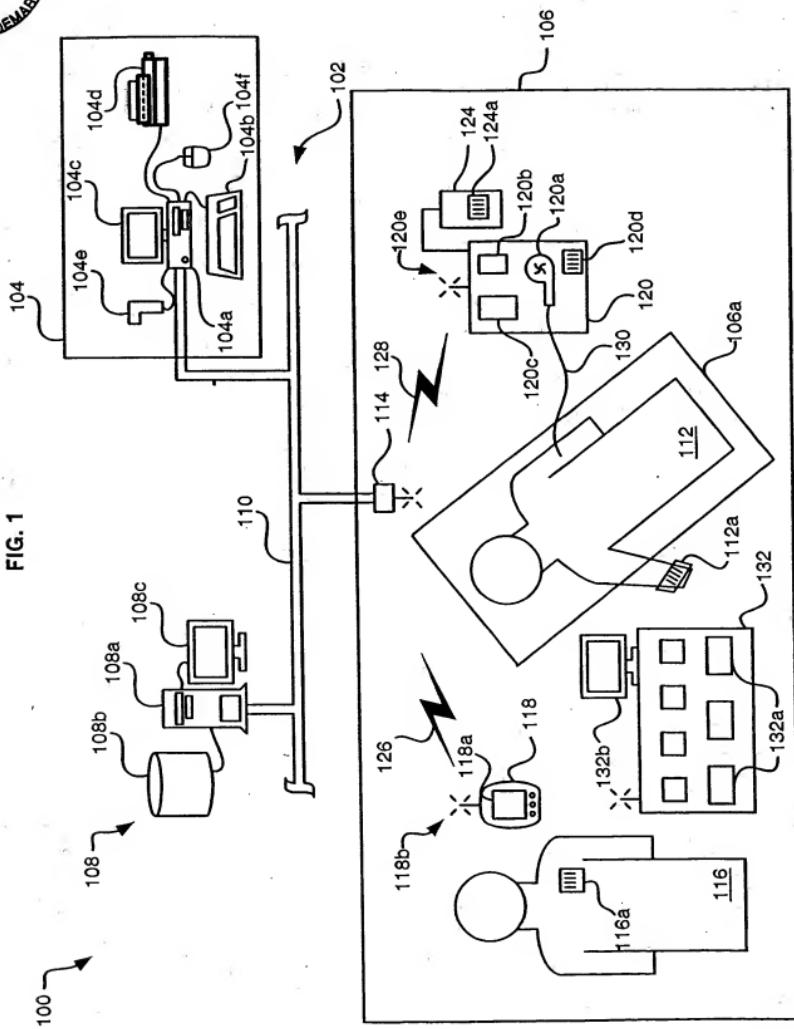
Inventors: Dan M. Mihai et al.

Application No.: 10/748,750

Confirmation No.: 2663

Title: Remote Multi-Purpose User Interface for a Healthcare System

Sheet 1 of 60 Sheets





Inventors: Dan M. Mihai et al.

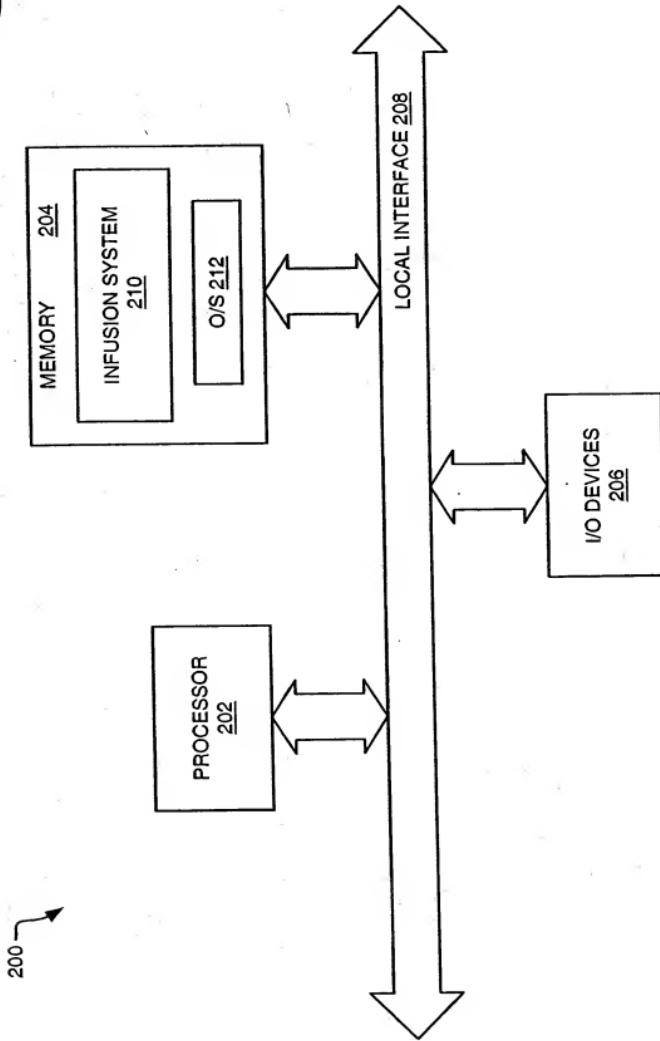
Application No.: 10/748,750

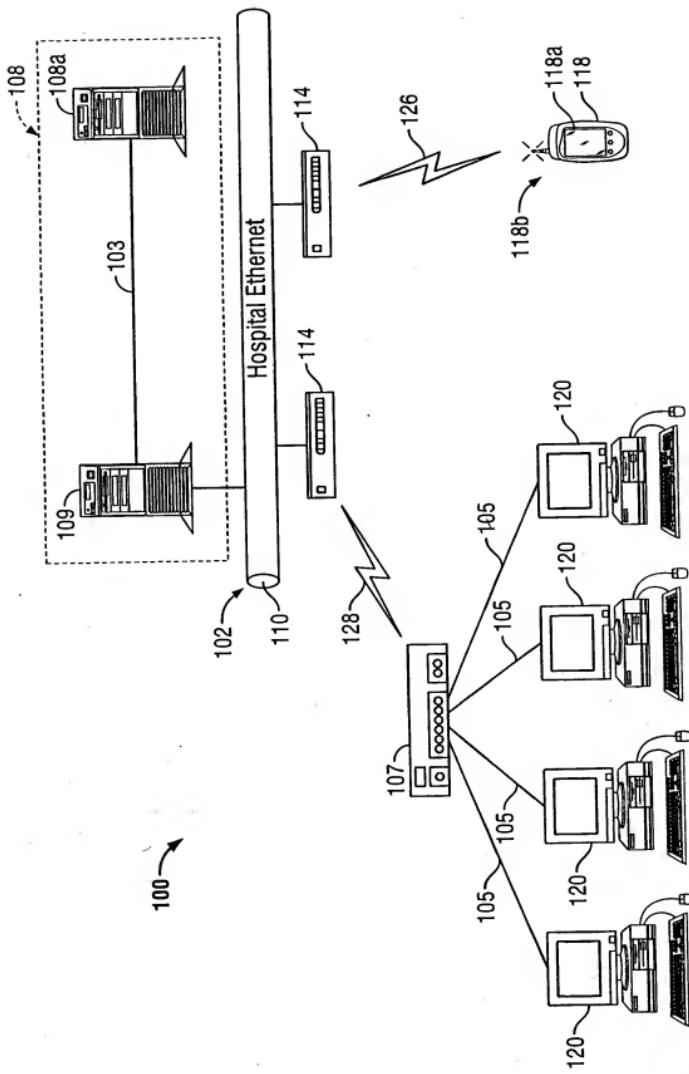
Confirmation No.: 2663

Title: Remote Multi-Purpose User Interface for a Healthcare System

Sheet 2 of 60 Sheets

FIG. 2





3  
FIG.

FIG. 4

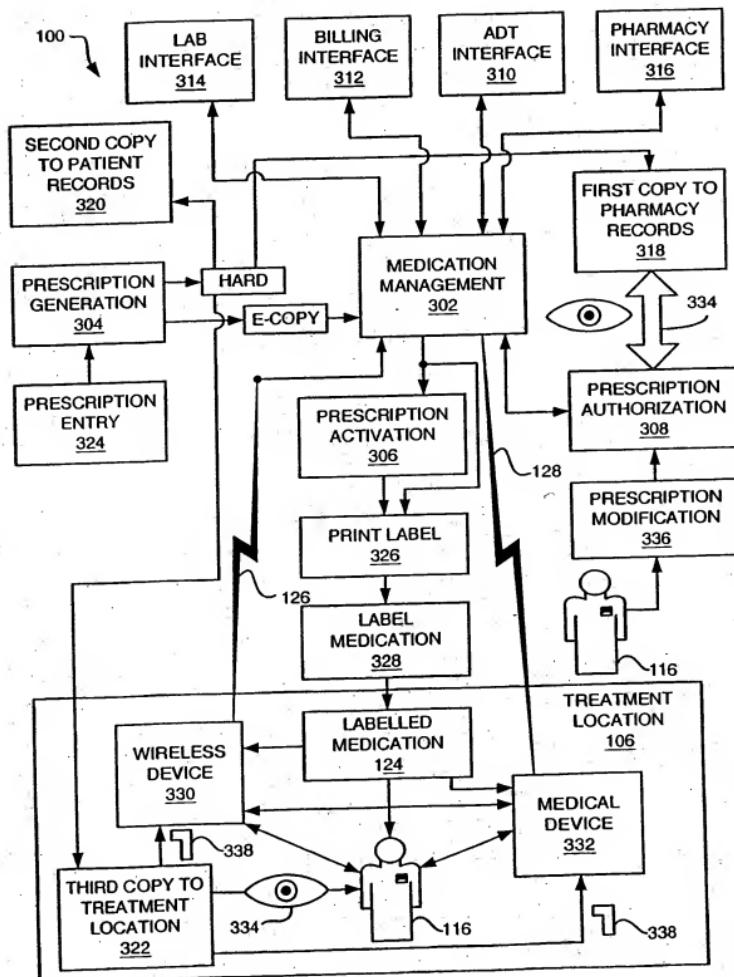


FIG. 5

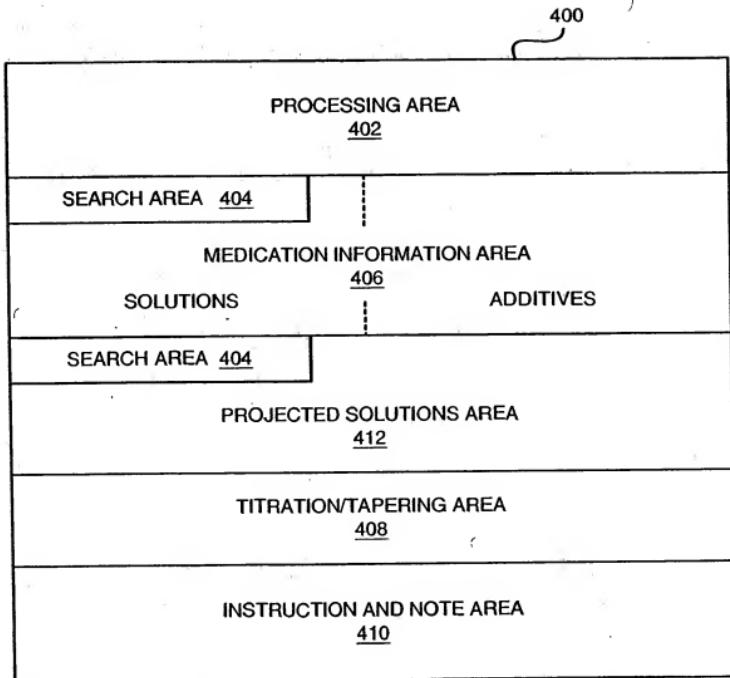


FIG. 6

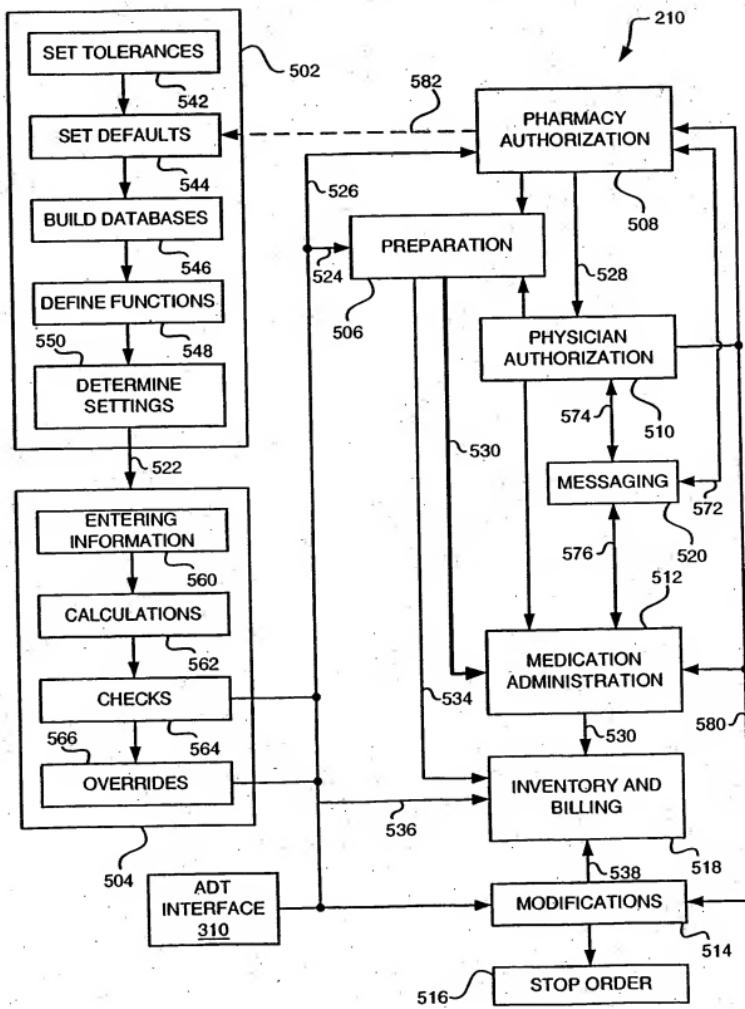


FIG. 7

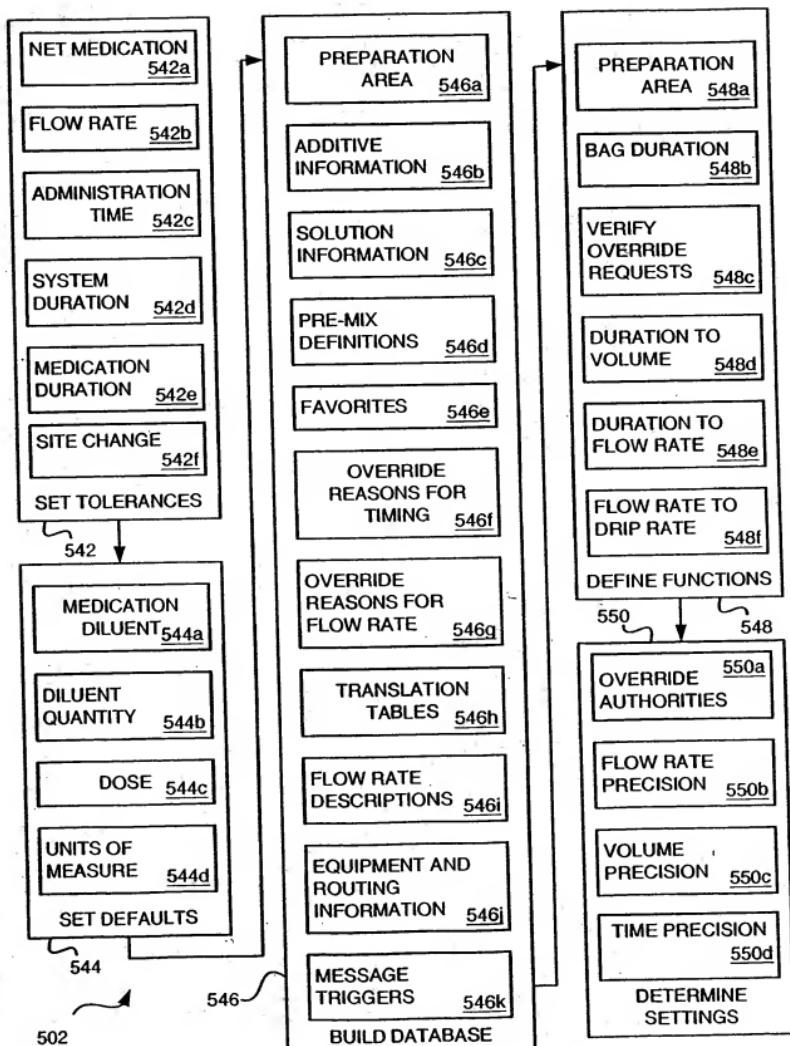


FIG. 8

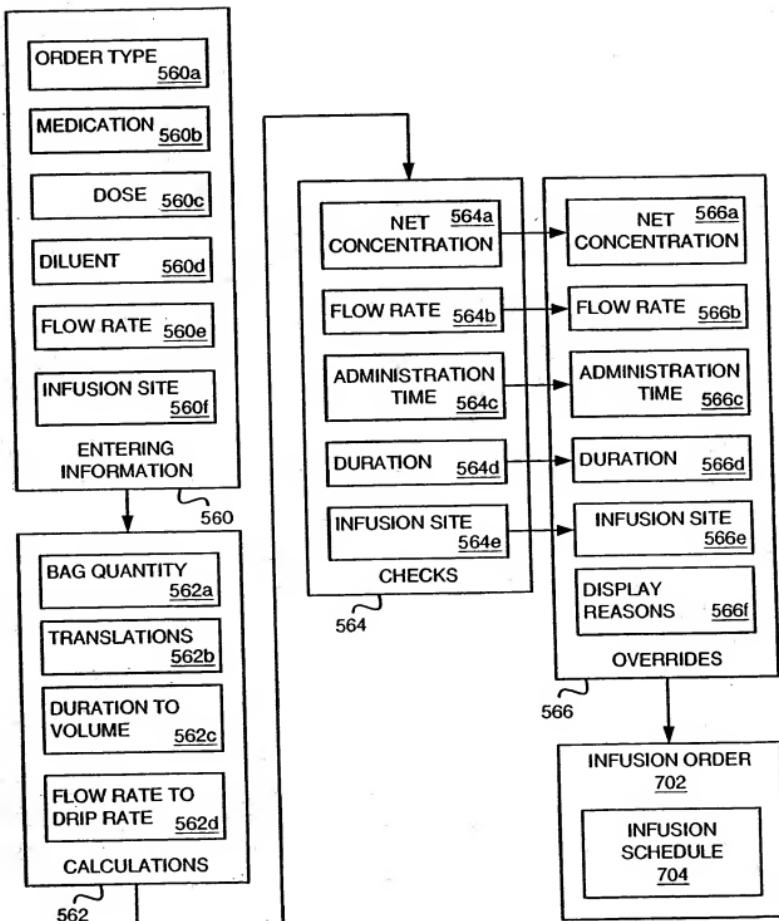
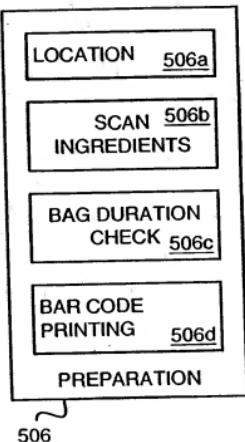
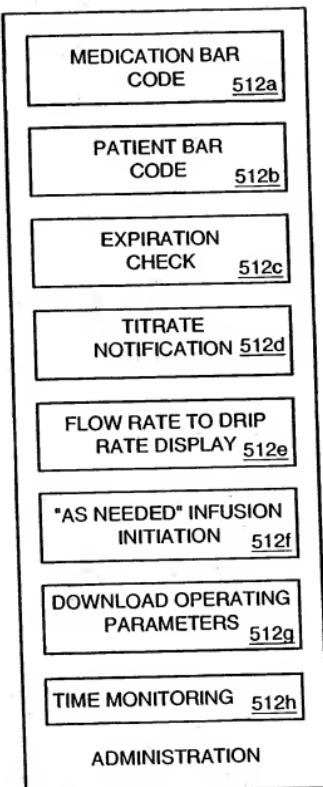


FIG. 9

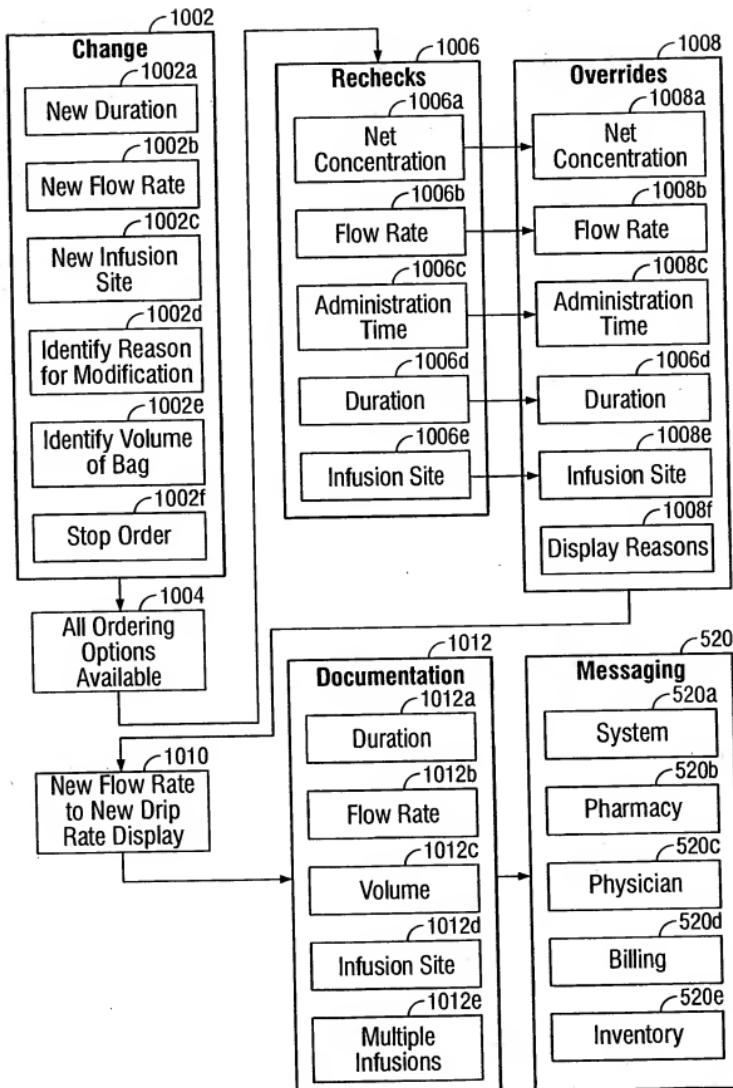


506

FIG. 10



512



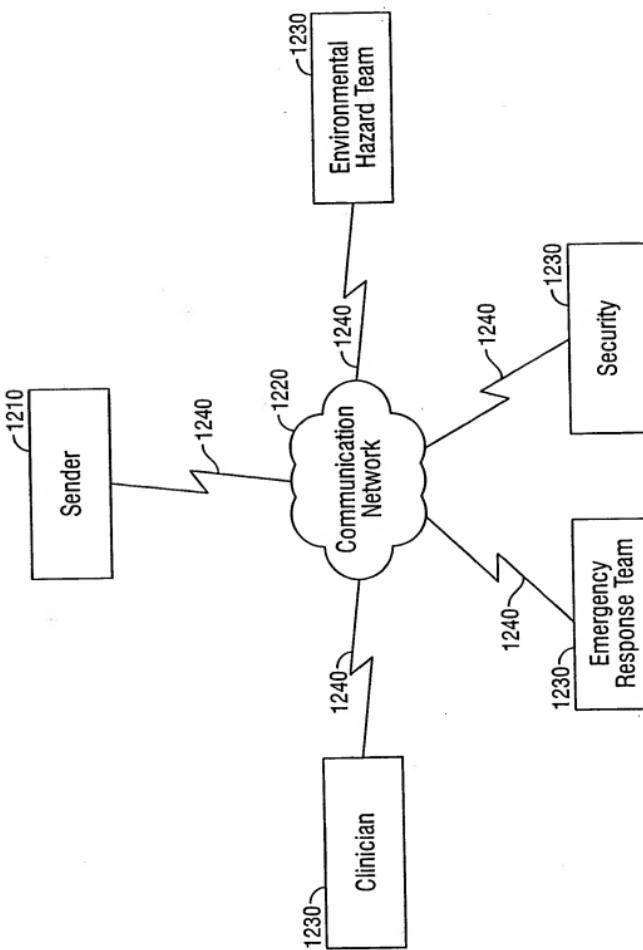


FIG. 12

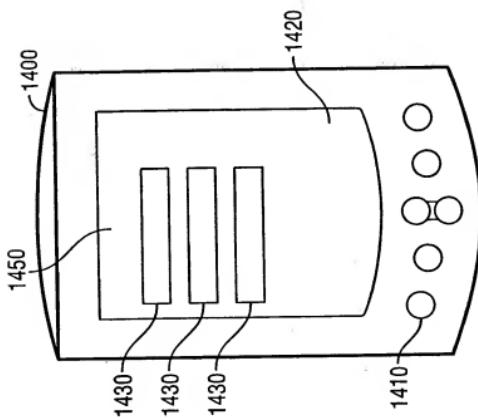


FIG. 14

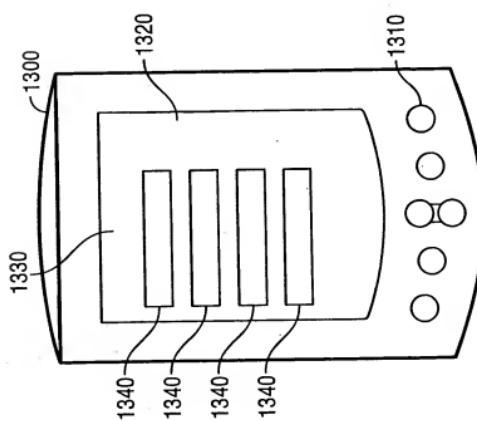
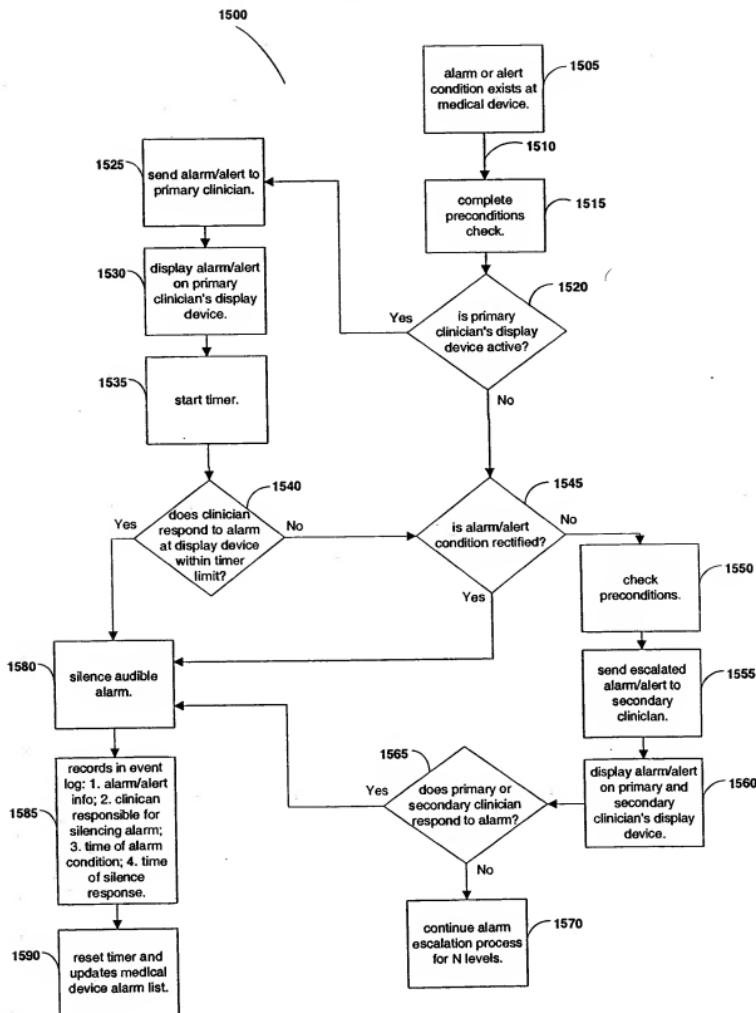


FIG. 13

FIG. 15



1662b

1676

		<b>Nurse A, RN</b>	
<b>Pump Alarms &amp; Alerts</b>			
Rm - Bed	Patient		
101 - B	<input type="checkbox"/>	Patient, One	
101 - C	<input type="checkbox"/>	Patient, Two	
101 - D	<input type="checkbox"/>	Patient, Three	
465 - A	<input type="checkbox"/>	Patient, Four	
321 - B	<input type="checkbox"/>	Patient, Five	
543 - B	<input type="checkbox"/>	Patient, Six	
135 - D	<input type="checkbox"/>	Patient, Seven	

1662a

4874

		<b>Nurse A, RN</b>	
<b>4872 Pump Alarms &amp; Alerts</b>			
Rm - Bed	Patient		
101 - B	<input type="checkbox"/>	Patient, One	
101 - C	<input type="checkbox"/>	Patient, Two	
101 - D	<input type="checkbox"/>	Patient, Three	

FIG. 16B

FIG. 16A

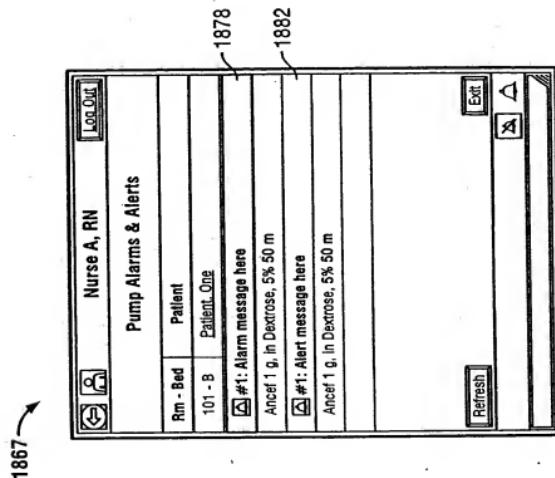


FIG. 18

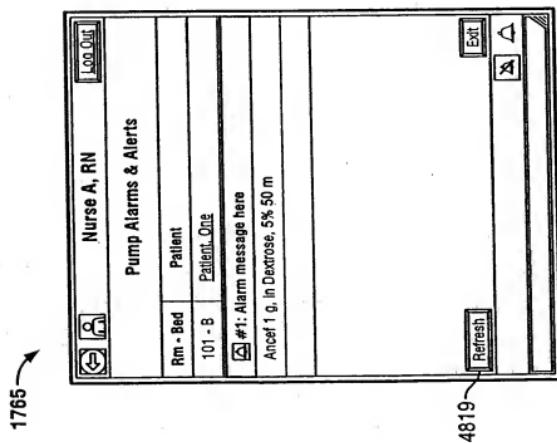


FIG. 17

2005 ↗  
1903 ↗

Patient Care System

General Hospital

User Name:  \*  
Nurse A

Password:  \*  
\*\*\*\*\*

Login failed.  
Check User Name or Password.

FIG. 20

Patient Care System

General Hospital

User Name:   
Nurse A

Password:   
\*\*\*\*\*

FIG. 19

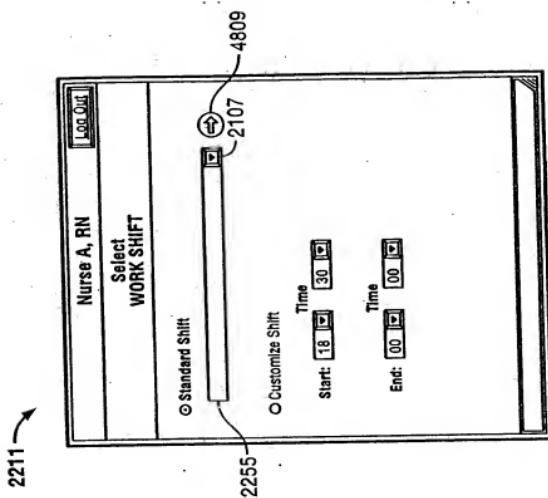


FIG. 22

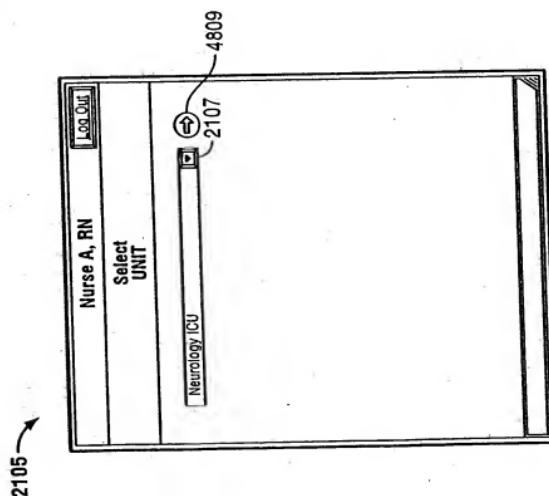
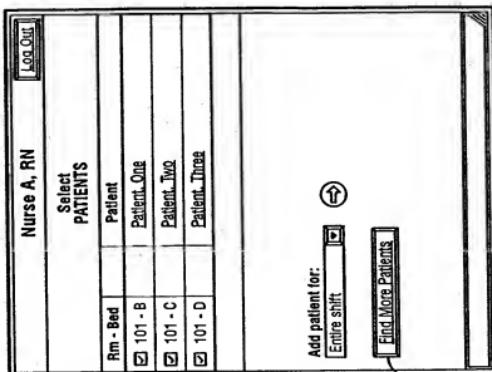


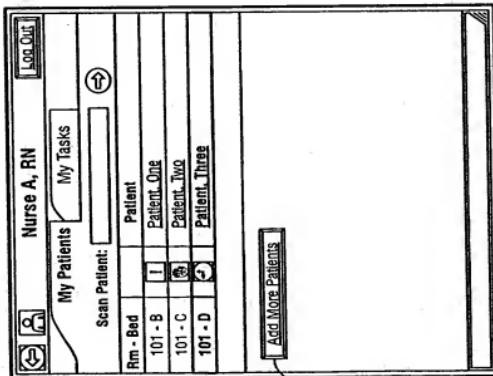
FIG. 21



2417 ↗

2419

FIG. 24



2313 ↗

2315

FIG. 23

2521a ↗

<input type="button" value="Logout"/>	<b>Ninety-Three, James RN</b>	<input type="button" value="Logout"/>
Ninety Nine, Douglas, Mr. (M010C1)		
MDUnit1: MDRoom1 - MDBed1		
Dr.Ninety, Susan		
Mini-Chart: Allergies		
<input type="button" value="Allergies &amp; H/W"/>	<input type="button" value="Med Rx"/>	
Lab Results		
<input type="button" value="Drug Allergy"/>		
Acetaminophen		
<input type="button" value="General Allergy"/>		
<input type="button" value="Data Observed"/>	<input type="button" value="Height"/>	<input type="button" value="Weight"/>
8-22 14:16	183.00 cm	85.00 Kg
	72.05 in.	187.39 lbs
<input type="button" value="Back"/>		

FIG. 25A

2521 ↗

<input type="button" value="Logout"/>	<b>Nurse A, RN</b>	<input type="button" value="Logout"/>
Patient One - 101-B		
Mini-Chart: Allergies (NKA)		
<input type="button" value="Administer IVs/Infusions"/>	<input type="button" value=""/>	<input type="button" value=""/>
<input type="button" value="STOP infusion"/>	<input type="button" value=""/>	<input type="button" value=""/>
<input type="button" value="RESUME infusion"/>	<input type="button" value=""/>	<input type="button" value=""/>
<input type="button" value="Titrate infusion"/>	<input type="button" value=""/>	<input type="button" value=""/>
<input type="button" value="Flow Rate History"/>	<input type="button" value=""/>	<input type="button" value=""/>
<input type="button" value="Pump Status"/>	<input type="button" value=""/>	<input type="button" value=""/>
<input type="button" value="Remove Patient from Shift"/>	<input type="button" value=""/>	<input type="button" value=""/>
<input type="button" value=""/>	<input type="button" value=""/>	<input type="button" value=""/>
<input type="button" value=""/>	<input type="button" value=""/>	<input type="button" value=""/>
<input type="button" value=""/>	<input type="button" value=""/>	<input type="button" value=""/>

FIG. 25

2521C

Ninety-Three, James RN

Ninety-Nine, Douglas, Mr. (MDLOC1)  
MDUnit1: MDRoom1 - MDBed1  
Dr.Ninety, Susan  
Min-Chart Allergies  
Allergies & HxW: Med/Hx

Lab Test	Result	Range	H/I	Date
POTASSIUM	3.1	3.6-5 mmol/L	Normal	5/16/2003 9:00:00 AM

FIG. 25C

2521b

Ninety-Three, James RN

Ninety-Nine, Douglas, Mr. (MDLOC1)  
MDUnit1: MDRoom1 - MDBed1  
Dr.Ninety, Susan  
Min-Chart Allergies (NKA)  
Allergies & HxW: Med/Hx

All  Scheduled  PRN

Look Back Period:  hours

Order

Acetaminophen Cap 500 MG  
500 MG = 1 CAP  
Oral  
TID  
Admin Date: 6-12-53

FIG. 25B

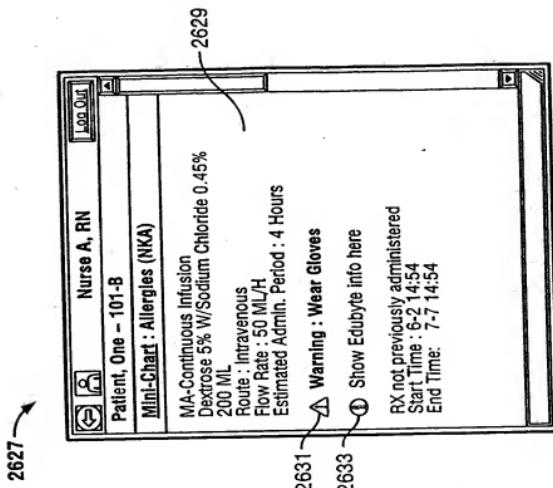


FIG. 26A

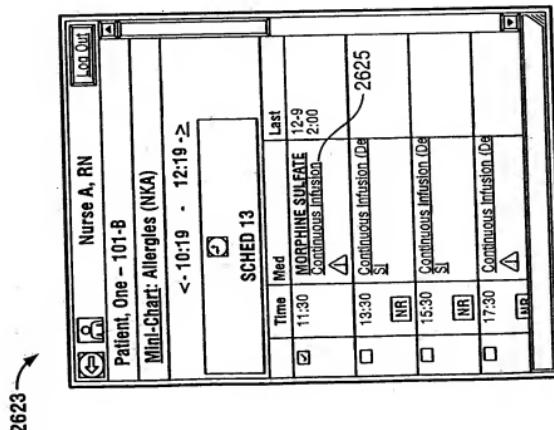


FIG. 26

2727b ↗

Ninety-Three, James RN

WORKFLOW INFUSION: STOP  
Ninety-Six, Samuel, Mr. MDRoom1-  
MDBed1

Mini-Chart: Allergies

Continuous Infusion  
Dextrose in 20%  
500 ML  
Route: Intravenous Flow Rate: 125  
ML/H  
Estimated Administration Period: 4  
Hours

Please select a reason for Stop  
infusion

Discontinue order in system

Stop Time [M/D/Y HH:MM]:  
06/12/2003  15  23

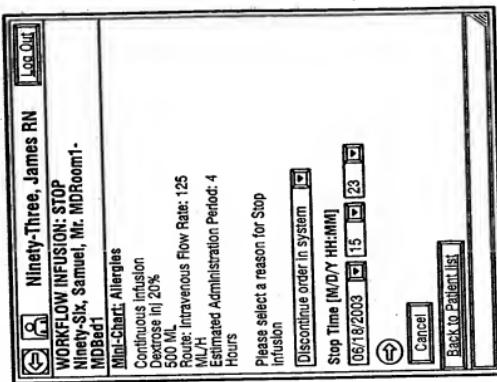


FIG. 27B

2727a ↗

Ninety-Three, James RN

WORKFLOW INFUSION: STOP  
Ninety-Six, Samuel, Mr. MDRoom1-  
MDBed1

Mini-Chart: Allergies

Scan Item:

Continuous Infusion  
Dextrose in 20%  
500 ML  
Route: Intravenous Flow Rate:  
125 ML/H  
Estimated Administration Period:  
4 hours

Order has been DC'd

Back to Patient List

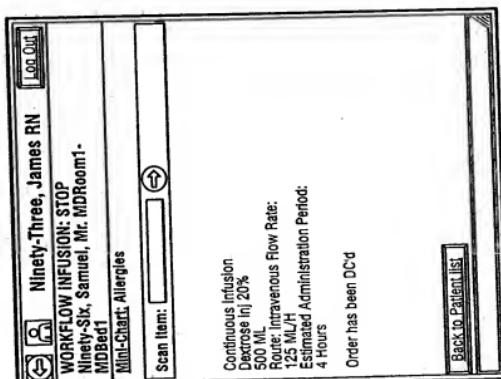


FIG. 27A

2727d

Ninety-Three, James RN

WORKFLOW INFUSION: RESUME

NinetyFour-PointOne, Fred, Mr.  
MRRoom1 - MRB001

MR-Chart: Allergies (Not Specified)

Continuous Infusion  
Dextrose Inj 20%  
500 ML  
Route: Intravenous Flow Rate:  
125 mL/H  
Estimated Administration Period:  
4 Hours

Stopped w/o Order  
Please select a reason for Resume  
Infusion

Site re-established

Cancel

4809

FIG. 27D

2727c

Ninety-Three, James RN

WORKFLOW INFUSION: RESUME

NinetyFour-PointOne, Fred, Mr.  
MRRoom1 - MRB001

MR-Chart: Allergies (Not Specified)

Scan Item:

Continuous Infusion  
Dextrose Inj 20%  
500 ML  
Route: Intravenous Flow Rate: 125  
mL/H  
Estimated Administration Period: 4  
Hours

Stopped w/o Order

Back to Patient List

FIG. 27C

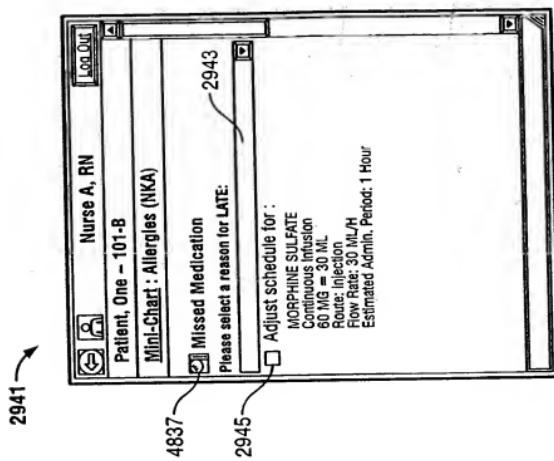


FIG. 29

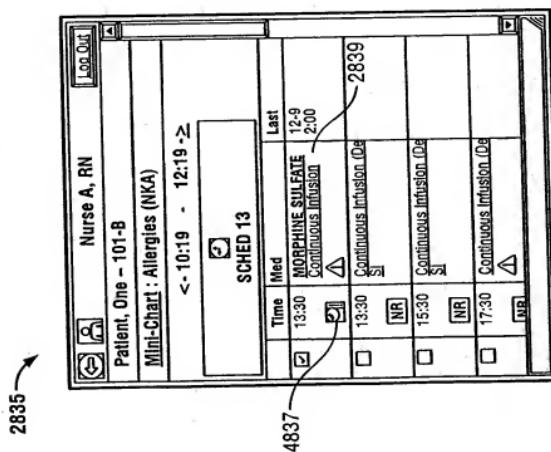


FIG. 28

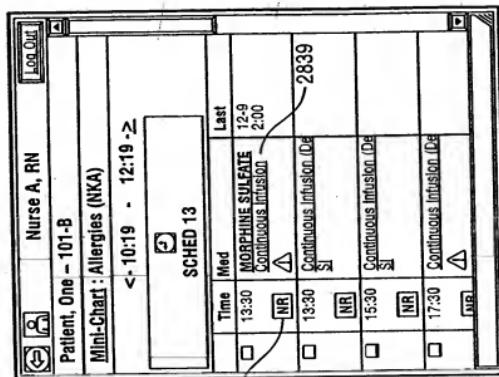


FIG. 31

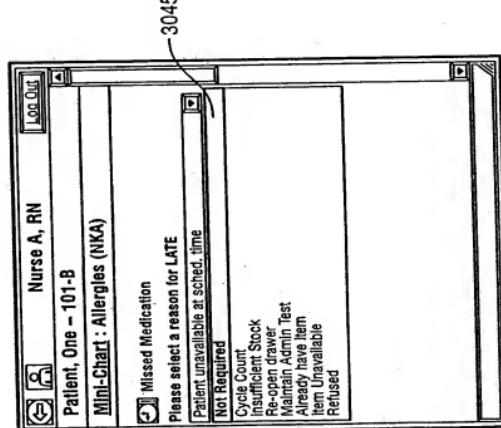


FIG. 30

3351 ↗

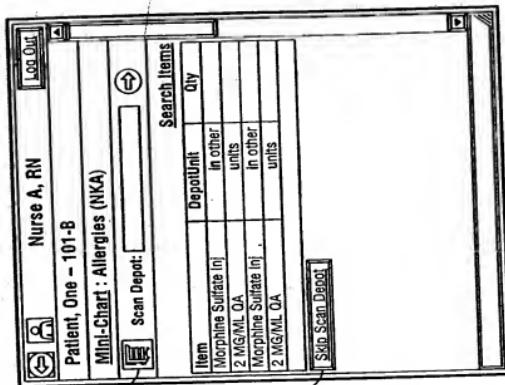


FIG. 33

3235 ↗

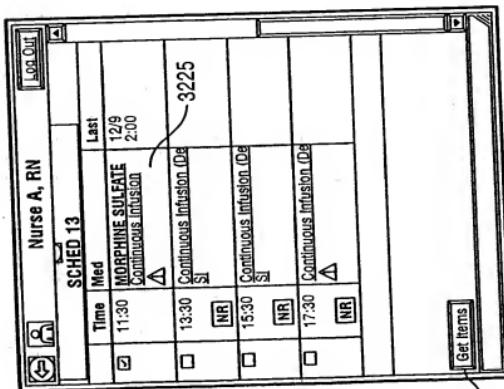


FIG. 32

3569 →

Nurse A, RN

Patient, One - 101-B

Mini-Chart : Allergies (NKA)

Scan Item:

Scan Depot:

Scan code is invalid.

Item	Depot/Unit	Qty
Morphine Sulfate (In)	In other	
2 MG/ML QA	Units	
Morphine Sulfate (In)	In other	
2 MG/ML QA	Units	

Scan Scan Depot

FIG. 35

3465 →

Nurse A, RN

Patient, One - 101-B

Mini-Chart : Allergies (NKA)

Scan Item:

Scan Depot:

MORPHINE SULFATE  
Continuous Infusion  
60 MG = 30 mL  
Route: Injection  
Flow Rate: 30 mL/H  
Estimated Admin. Period: 1 Hour

Quantity:  mL(s)

Get: 30 mL

Warning: Wear Gloves

① Show Eddyite Info here

FIG. 34

3771 ↗

	<b>Nurse C, RN</b>	<b>Logout</b>
<b>Patient, Three , Mr. 100-C</b>		
<b>Mini-Chart : Allergies</b>		
<b>Verify Route, Line &amp; Site</b>		
Rx Sodium Chloride 0.9% Continuous Infusion 0.9% Rx Sodium Chloride 0.9% 1000 mL Route: Intravenous Flow Rate: 50 mL/H Estimated Administration Period: 20 Hours		
Please hang the bag Program the pump and record the following information but DO NOT start the pump channel until instructed:		
Route: <input type="checkbox"/> Intramuscular <input checked="" type="checkbox"/> 3773 Line: <input type="checkbox"/> Central <input checked="" type="checkbox"/> 3775 Site: <input type="checkbox"/> Right Forearm <input checked="" type="checkbox"/> 3777 <input type="checkbox"/> Dominate Route		

4817 ↗

FIG. 37

3657 ↗

	<b>Nurse A, RN</b>	<b>Logout</b>
<b>Patient, One - 101-B</b>		
<b>Mini-Chart : Allergies (NKA)</b>		
	<b>Scan Patient:</b> <input type="text"/>	
3661 ↗		
If Cannot admin, select a reason: <input type="checkbox"/> 3669		
<b>Not Rec Due to Monitoring Result</b>		
Patient Unavailable <input type="checkbox"/> Refused <input type="checkbox"/>		
<b>Waste/Return</b> <input type="checkbox"/> 3663		

FIG. 36

3885 ↗

<input type="button" value="Log Out"/>
Nurse C, RN
<input type="button" value="Patient, Three, Mr. 100-C"/>
Mini-Chart : Allergies
Scan Pump Channel
Rx Sodium Chloride 0.9% Continuous Infusion Rx Sodium Chloride 0.9% 1000 mL Route: Intravenous Flow Rate: 50 mL/H Estimated Administration Period: 20 Hours
Scan Pump Channel <input type="button" value="4809"/>

FIG. 38A

3881 ↗

<input type="button" value="Log Out"/>
Nurse C, RN
<input type="button" value="Patient, Three, Mr. 100-C"/>
Mini-Chart : Allergies
Select Pump Channel Mode
Rx Sodium Chloride 0.9% Continuous Infusion Rx Sodium Chloride 0.9% 1000 mL Route: Intravenous Flow Rate: 50 mL/H Estimated Administration Period: 20 Hours
Select Pump Channel Mode: <input type="checkbox"/> Primary <input type="checkbox"/> Backup <input type="checkbox"/> 3883
<input type="checkbox"/> 3884

FIG. 38B

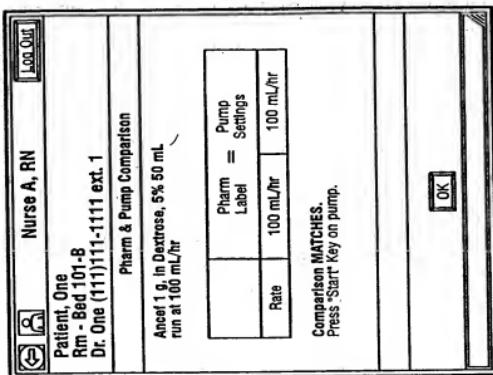


FIG. 394

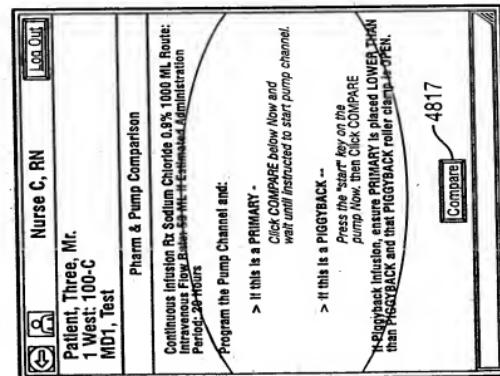


FIG. 39

4087 ↗

4825 ↗

**Nurse A, RN**

Log Out

Patient: One  
Rm - Bed 101-B  
Dr. One (111)111-1111 ext. 1

Pharm & Pump Comparison

Acet 1 g, In Dextrose, 5% 50 mL  
run at 100 mL/hr

	Pharm Label	Pump Settings
Rate	100 mL/hr	50 mL/hr

Please Verify with PHYSICIAN Order.  
Then to accept the mismatch, press "Start" key on pump  
and then click "OK" below.  
You can also reprogram the pump and then click  
"Compare again".

4817 ↗

4187 ↗

**Nurse A, RN**

Log Out

Patient: One  
Rm - Bed 101-B  
Dr. One (111)111-1111 ext. 1

Pharm & Pump Comparison

Acet 1 g, In Dextrose, 5% 50 mL  
run at 100 mL/hr

	Pharm Label	Pump Settings
Rate	100 mL/hr	? mL/hr

Cannot Compare.  
Press "Rate" key and COMPARE.

4817 ↗

FIG. 40

FIG. 41

4391 ↗

**Nurse A, RN**

**Lock Out**

Patient, One  
Rm - Bed 101-B  
Dr. One (111)111-1111 ext. 1

**Pump Status**

Angel 1 g. in Dextrose, 5% 50 mL  
run at 100 mL/hr

Rate	60 mL/hr
Volume infused	5 mL
Volume Remaining	45 mL
Time Remaining	45 min.

\*NOTE: Pump Override Accepted

**Exit**

4807

4819

4287 ↗

**Nurse A, RN**

**Lock Out**

Patient, One  
Rm - Bed 101-B  
Dr. One (111)111-1111 ext. 1

**Pharm & Pump Comparison**

Angel 1 g. in Dextrose, 5% 50 mL  
run at 100 mL/hr

Pharm Label	Pump Settings
Rate 100 mL/hr	7 mL/hr

Cannot Compare. Press "Start" key on pump and click COMPARE, to retry comparison.

**COMPARE** 4817

FIG. 42

FIG. 43

4501 →  
4493 →

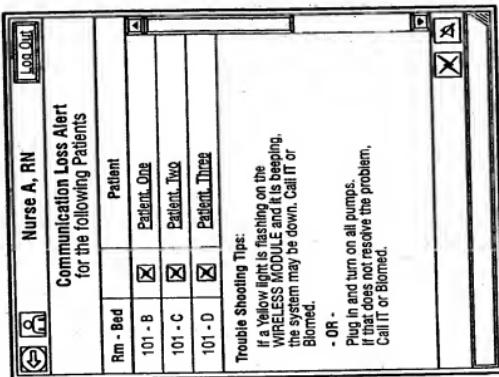


FIG. 45A

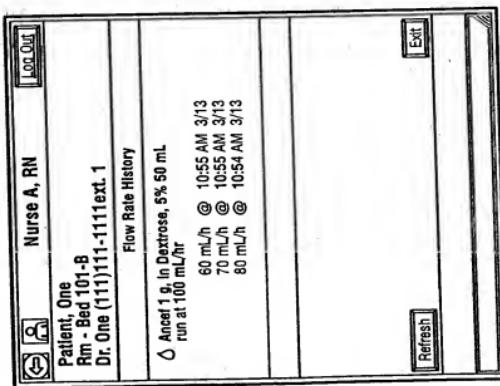


FIG. 44

4603

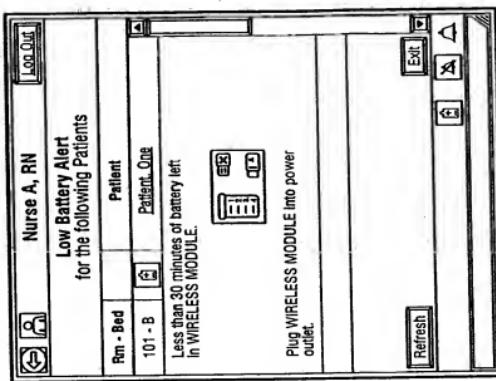


FIG. 46

4501

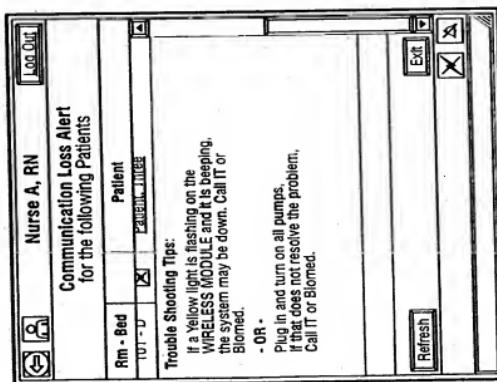


FIG. 45B

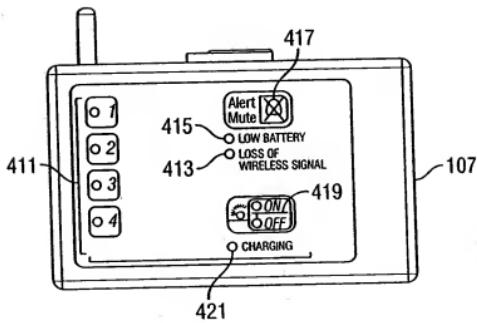


FIG. 47

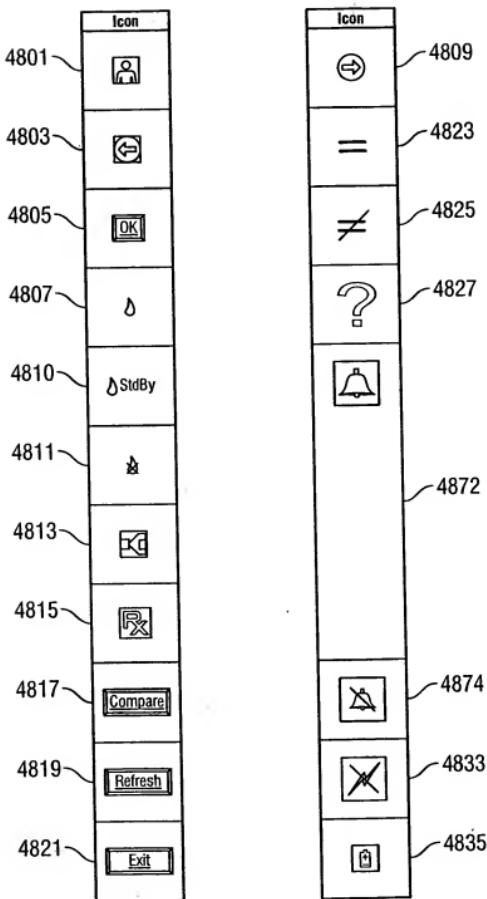


FIG. 48

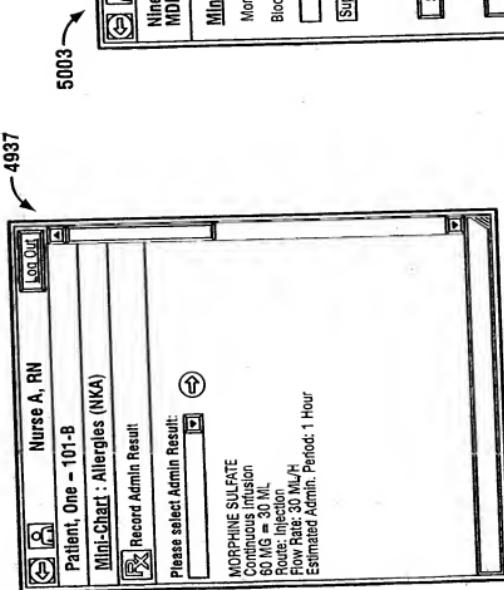


FIG. 49

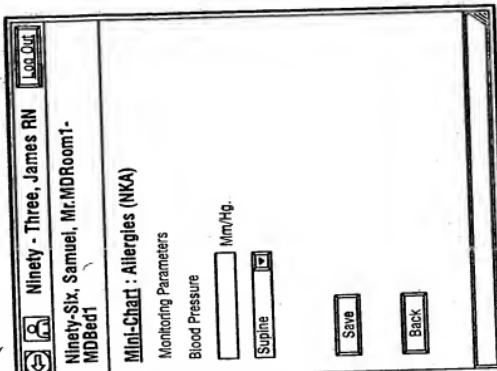


FIG. 50A

	Time	Med	Last
	14:39	Diclofenac Tab 0.125 NR 150 mg 150 mg MP	

5001

FIG. 50

5101

Ninety-Three, James RN

Log Out

Eightytwo, Anthony, MDRoom1-MDDefaultBed

Mini-Chart: Allergies

ACETAMINOPHEN/CODEINE #4  
Acetaminophen w/ Codeine Tab  
300-60 MG 60 MG = 1 TAB Oral  
QID

Drawer 1, Bin 05

Count before the removal of  
medication(first count)

Qty on hand: TAB(s)

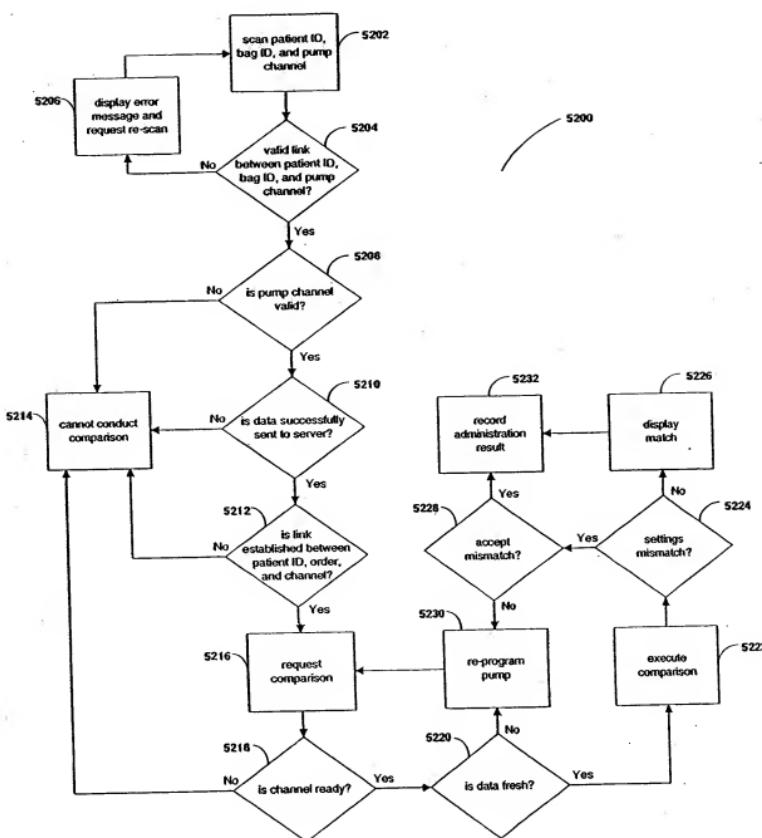
Count

Back to Patient List

Re-open drawer

FIG. 51

FIG. 52



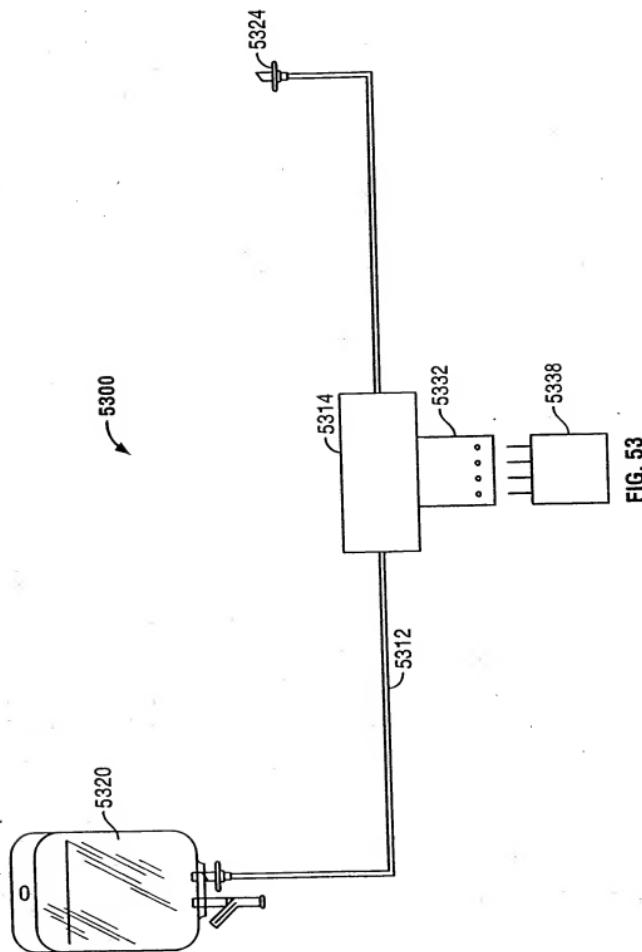
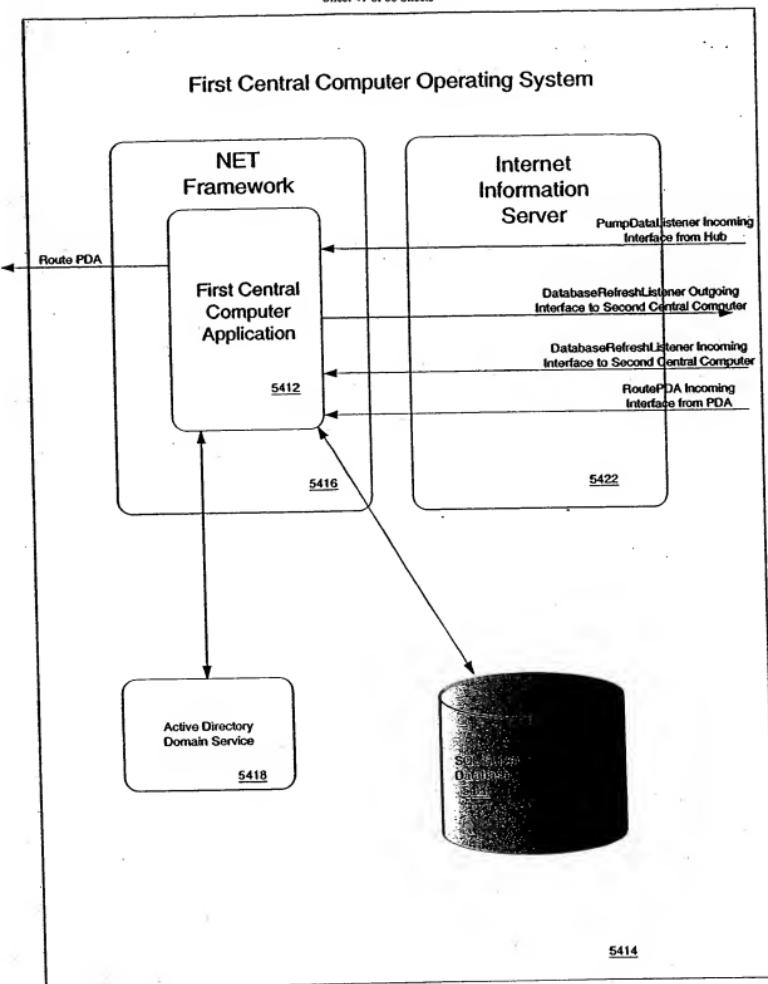


FIG. 53



**FIG. 54**

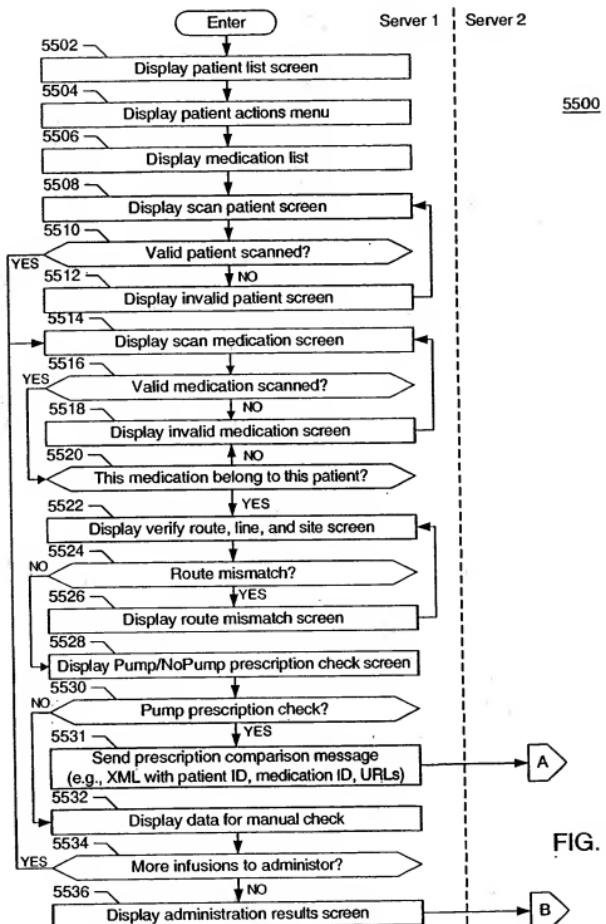


FIG. 55A

FIG. 55B

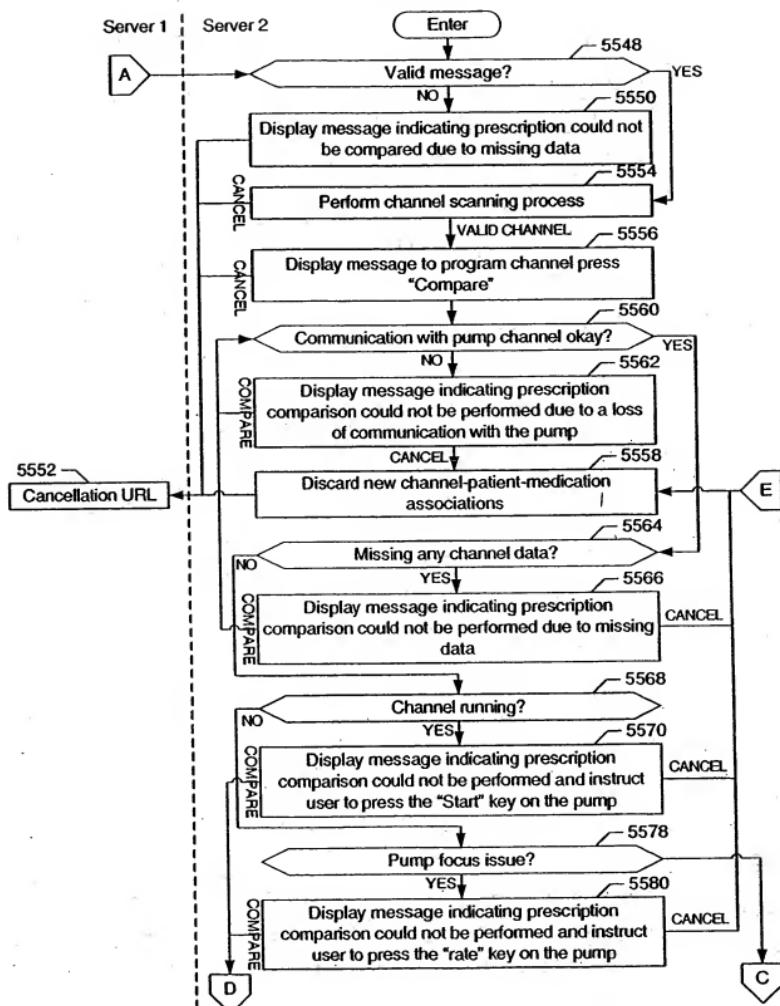
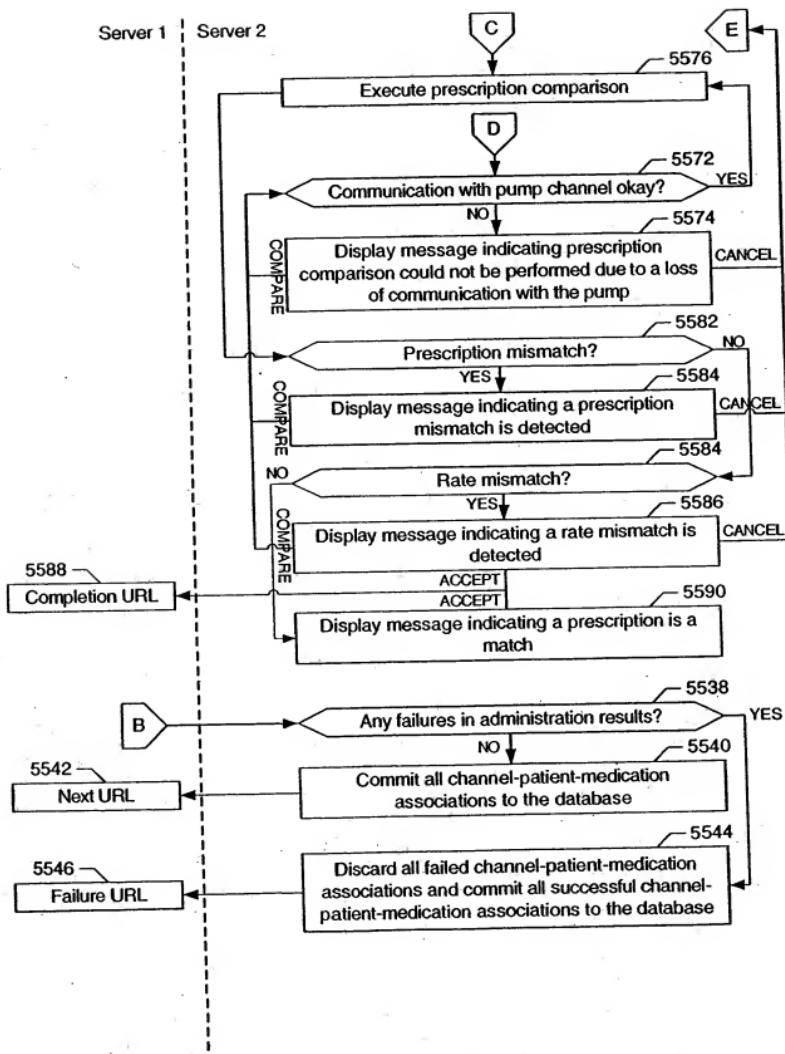


FIG. 55C



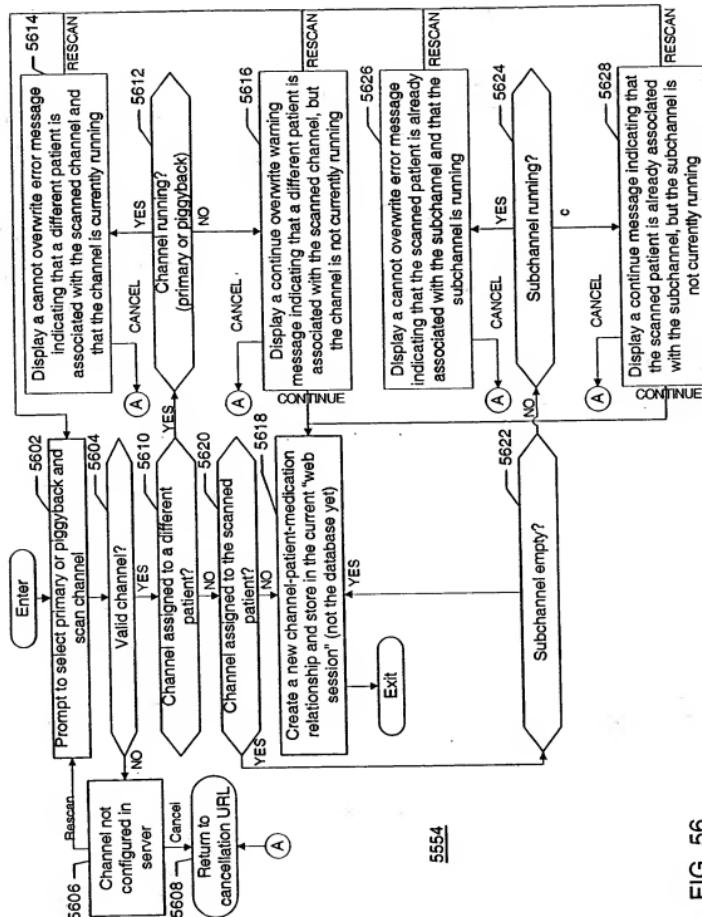


FIG. 56

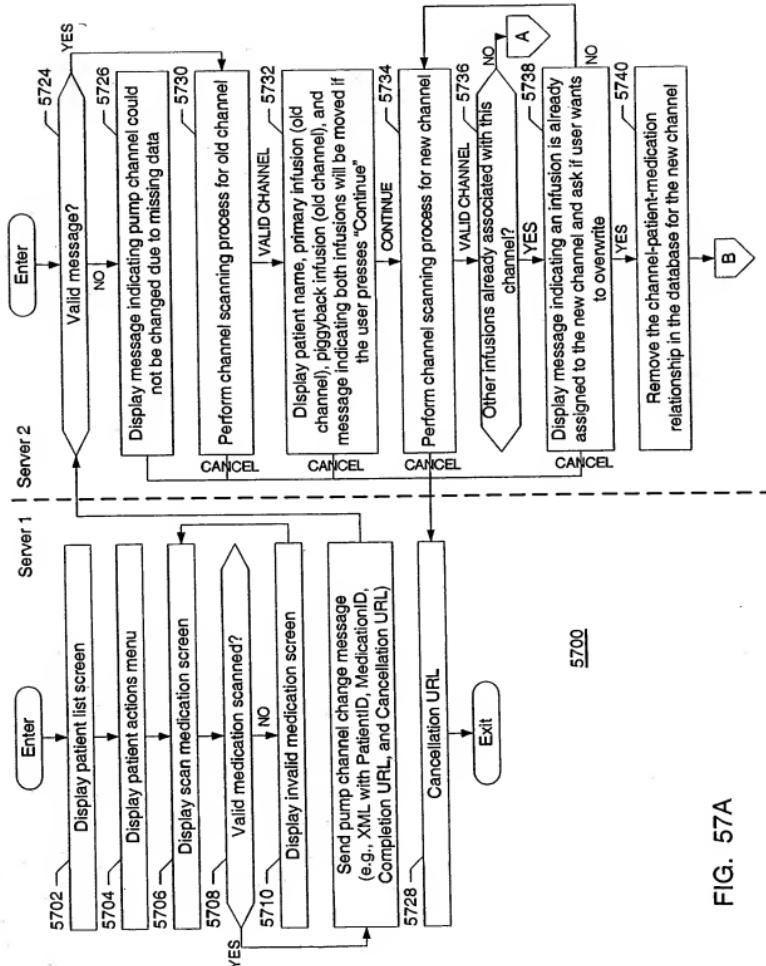


FIG. 57A

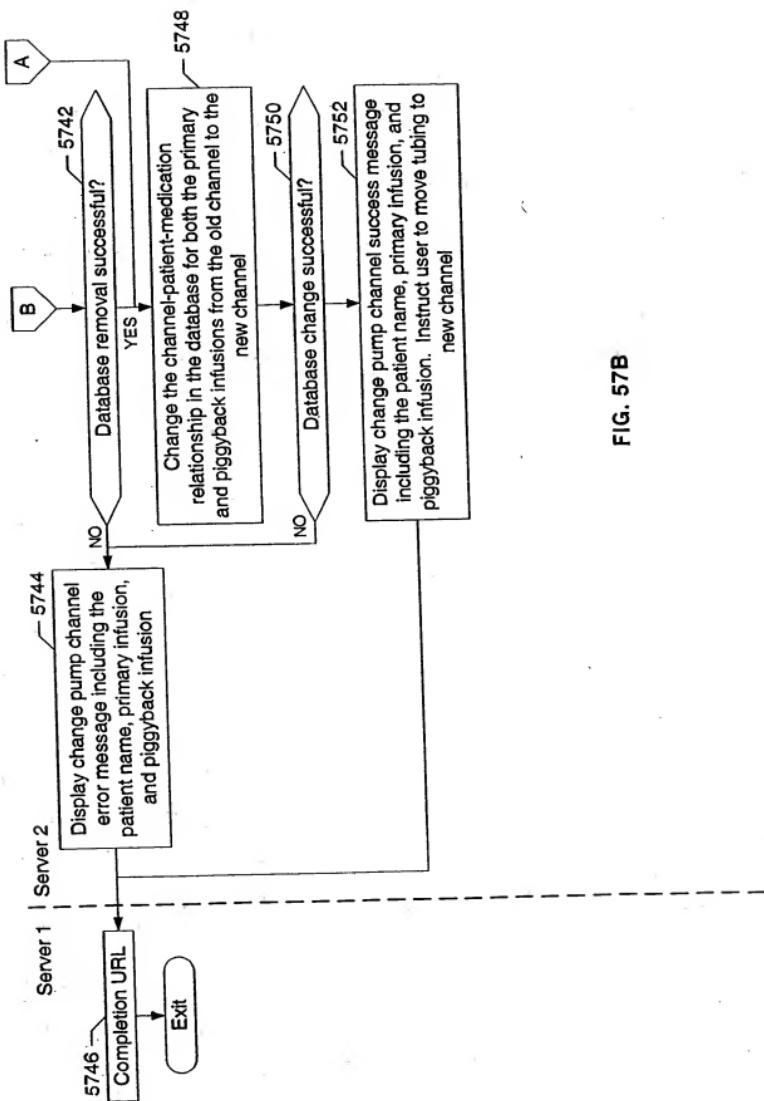


FIG. 57B

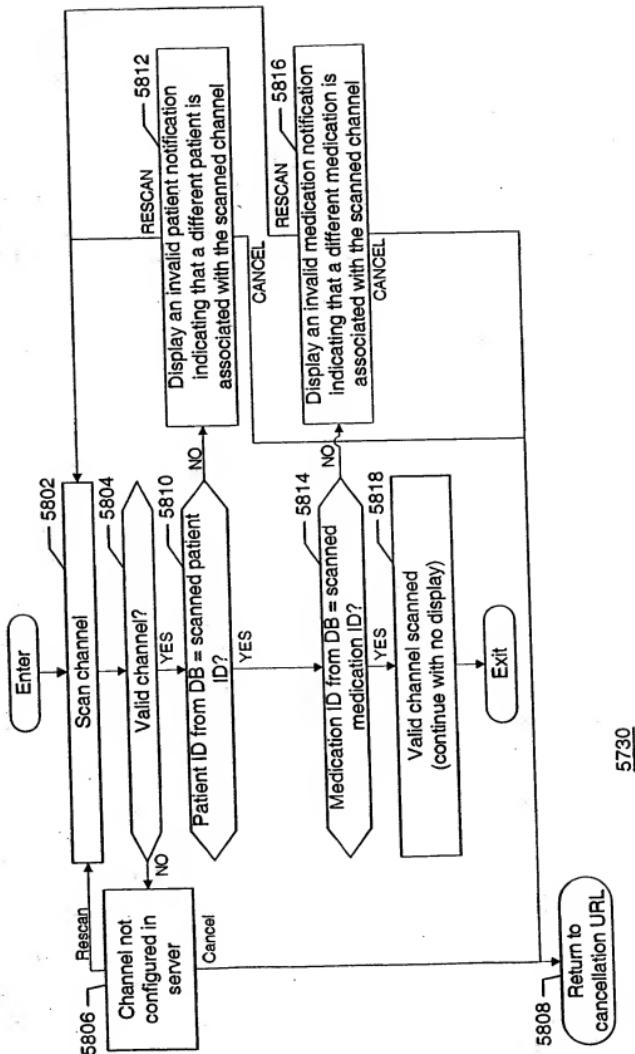


FIG. 58

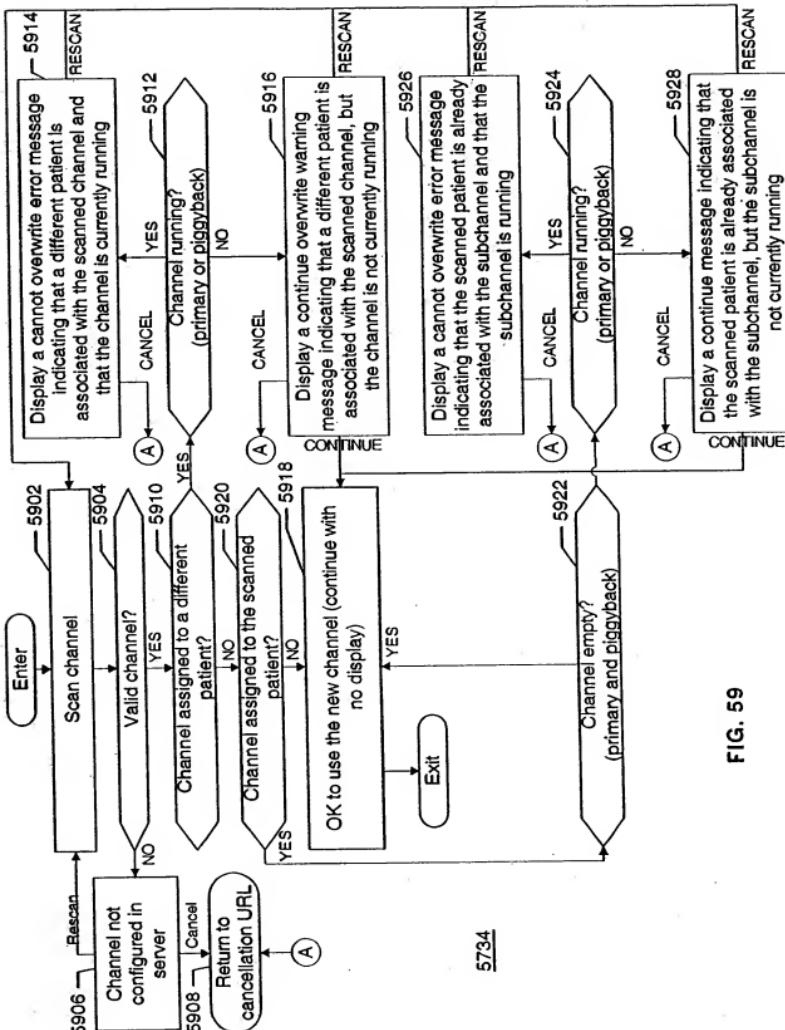


FIG. 59

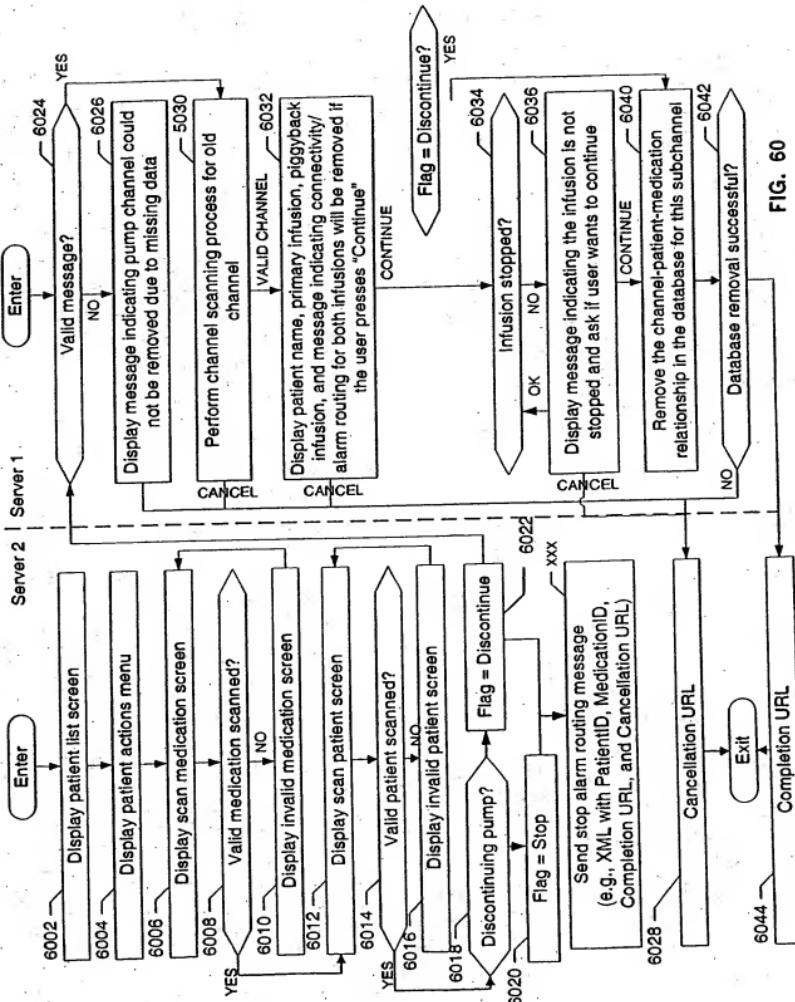
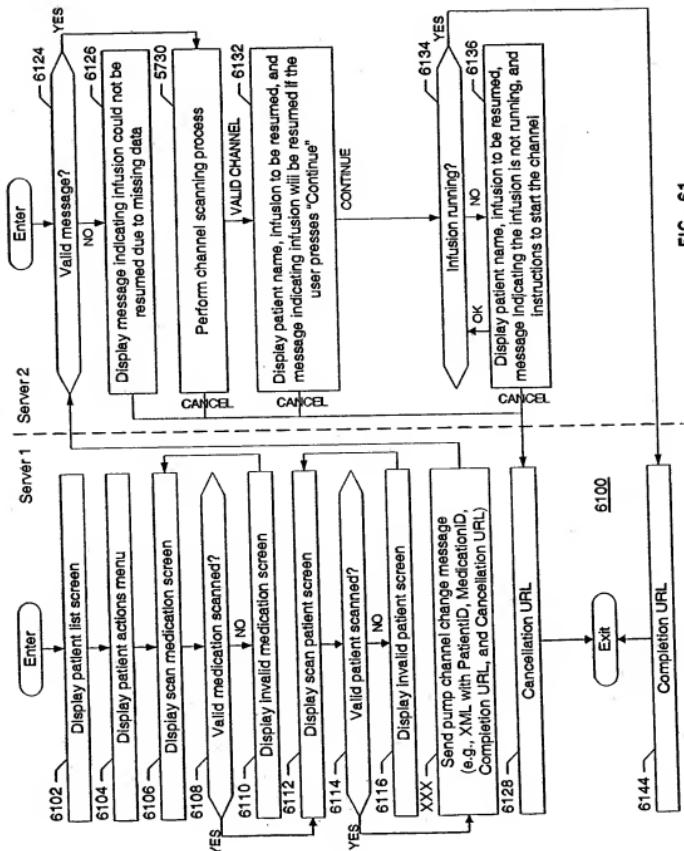


FIG. 60



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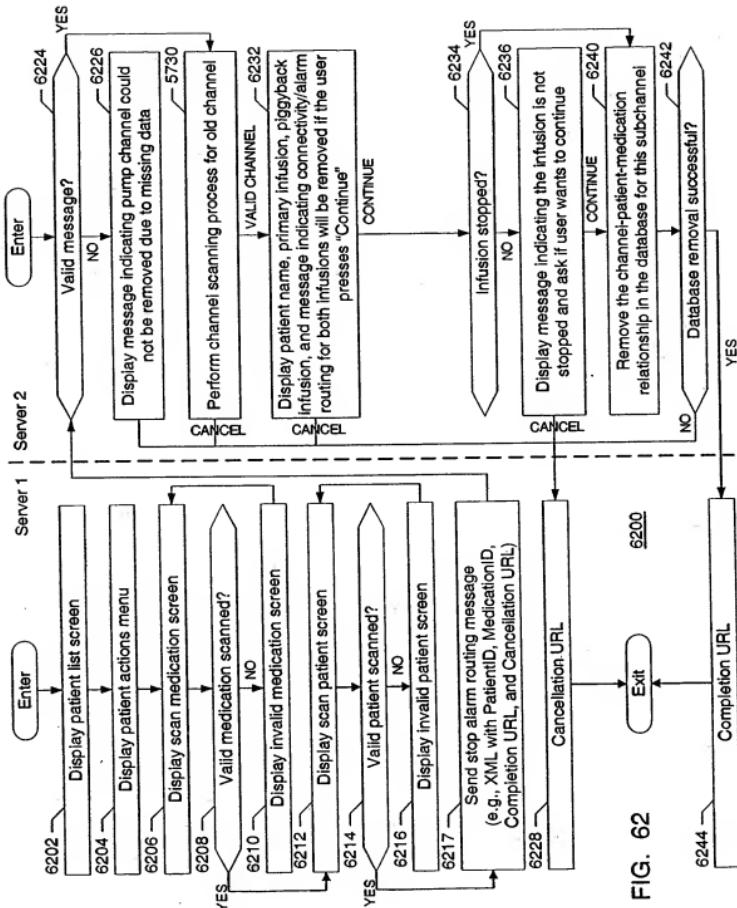
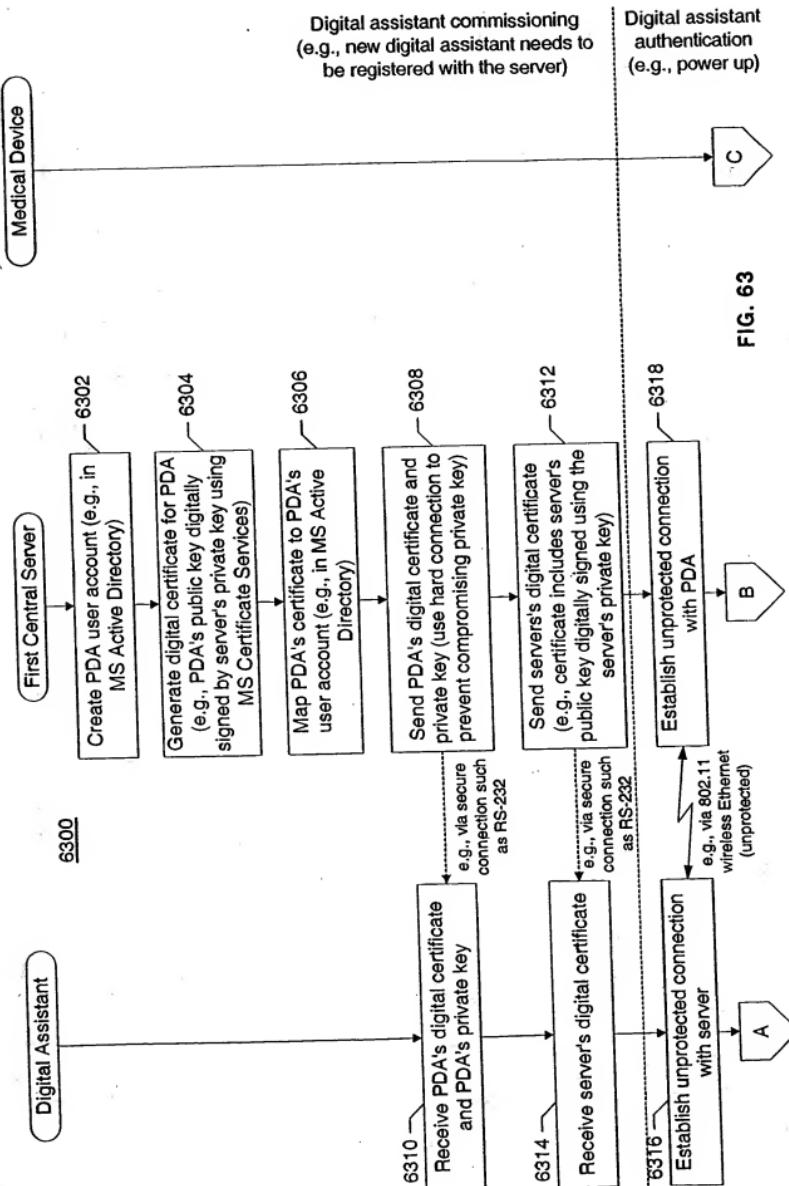


FIG. 62



Digital assistant authentication  
(e.g., power up)

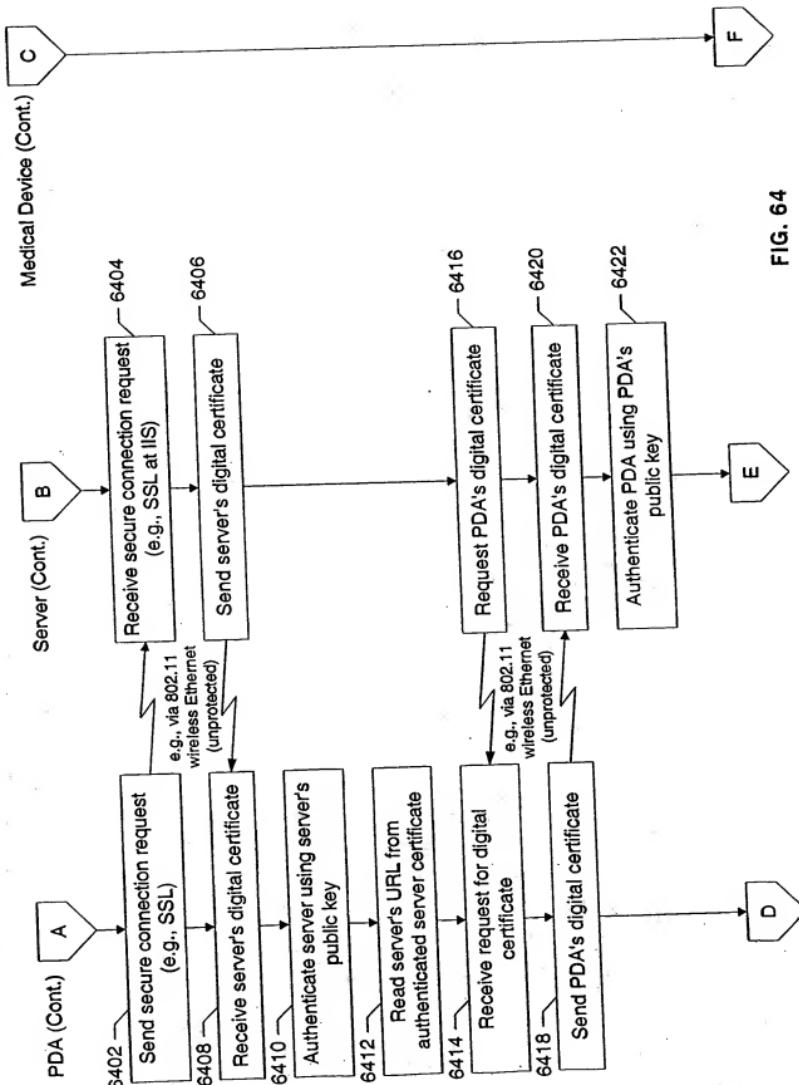
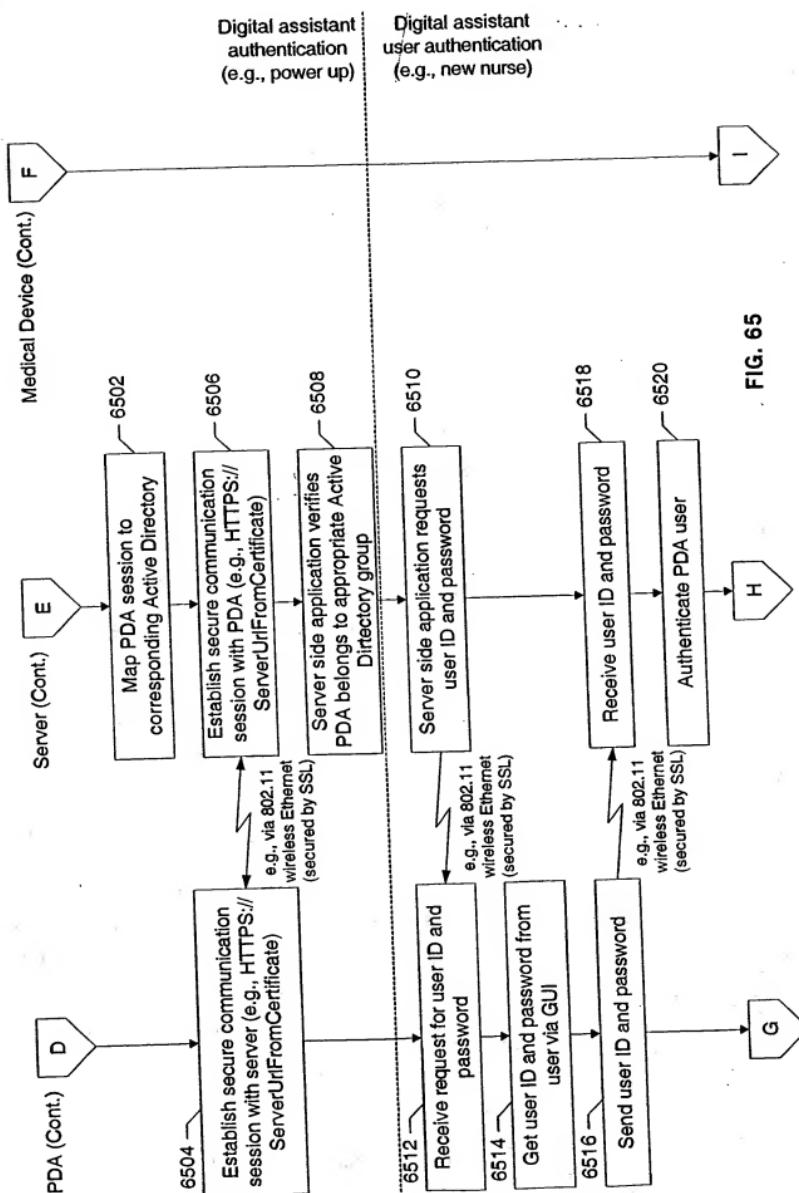
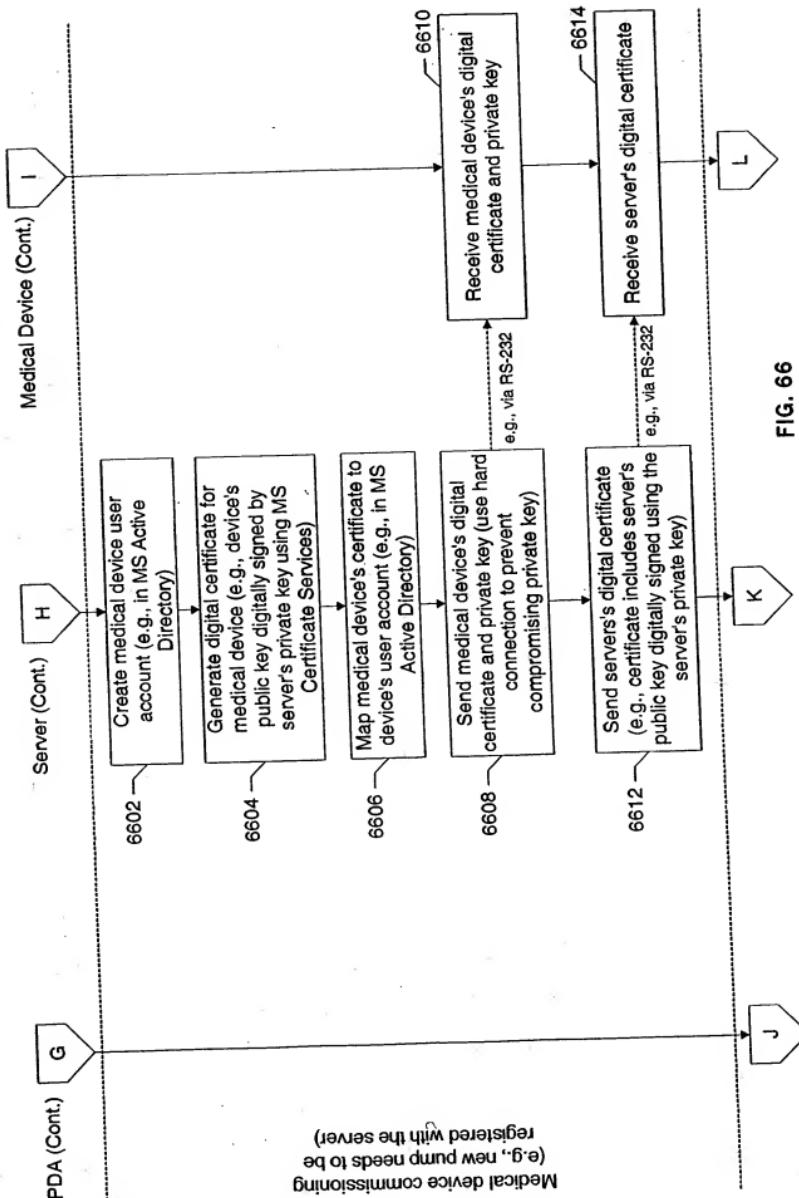


FIG. 64





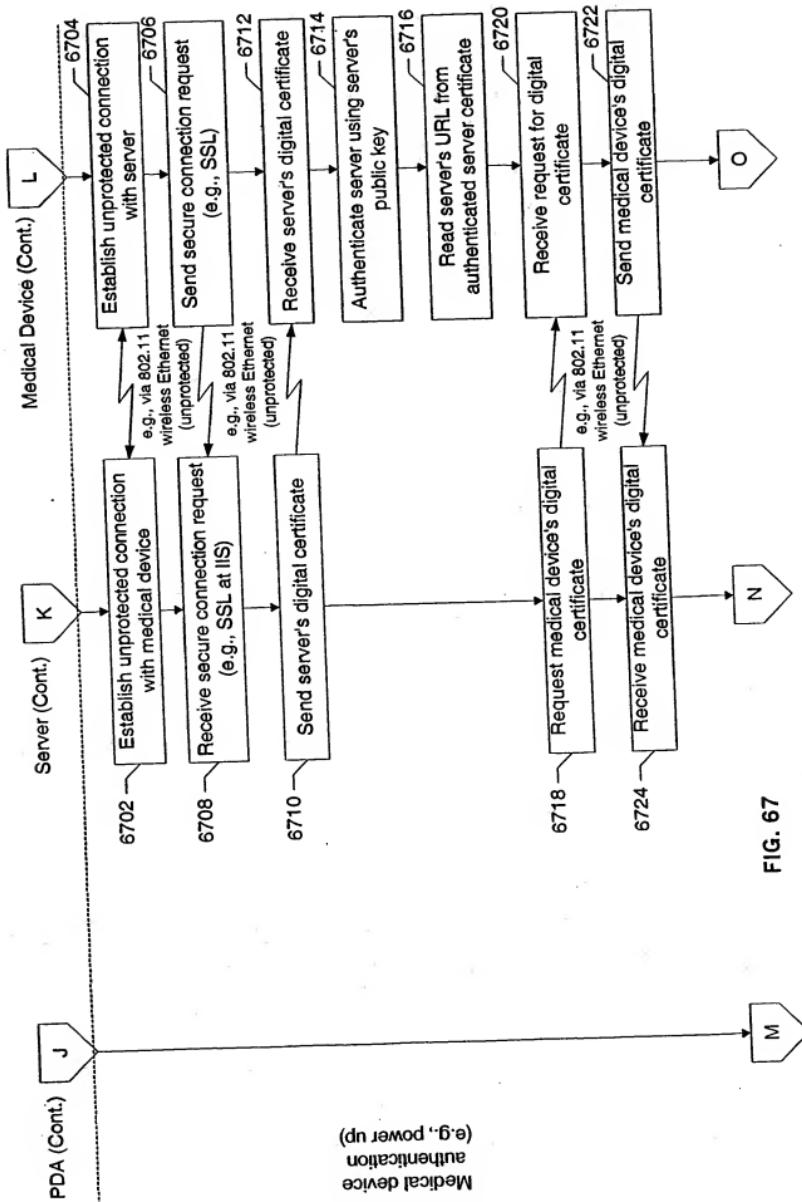
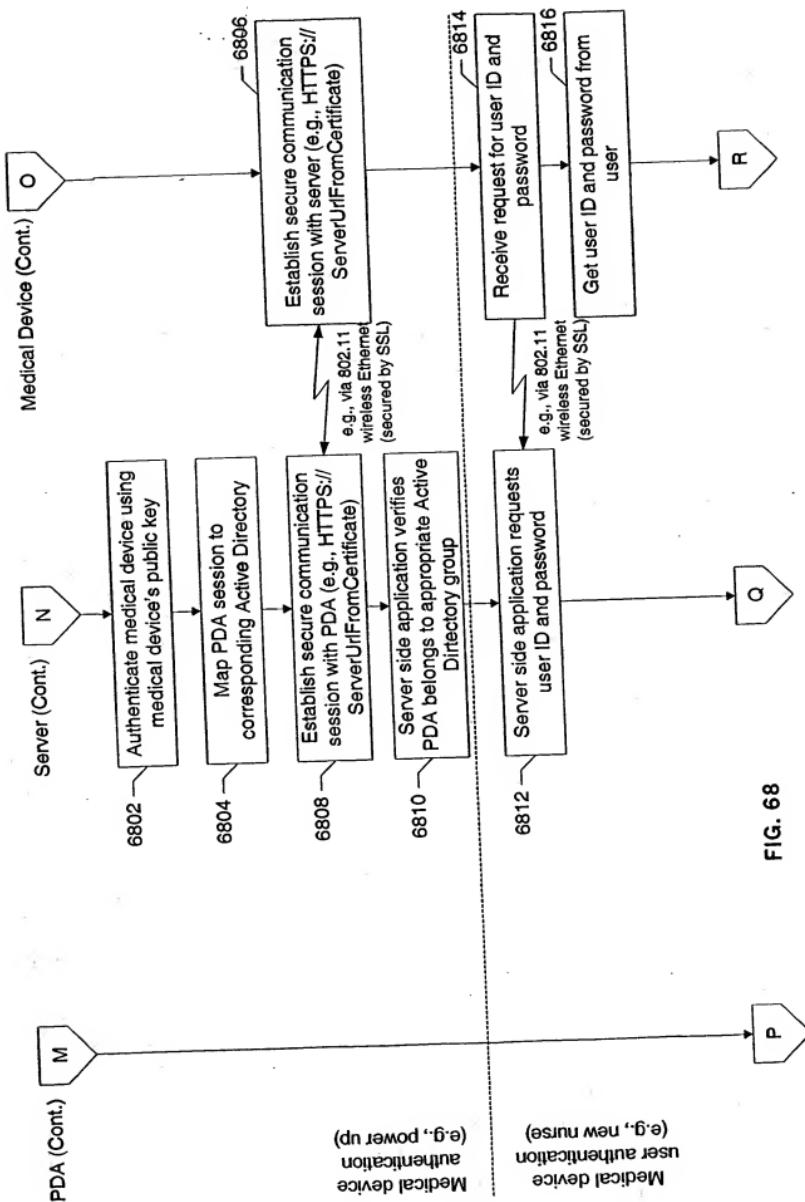
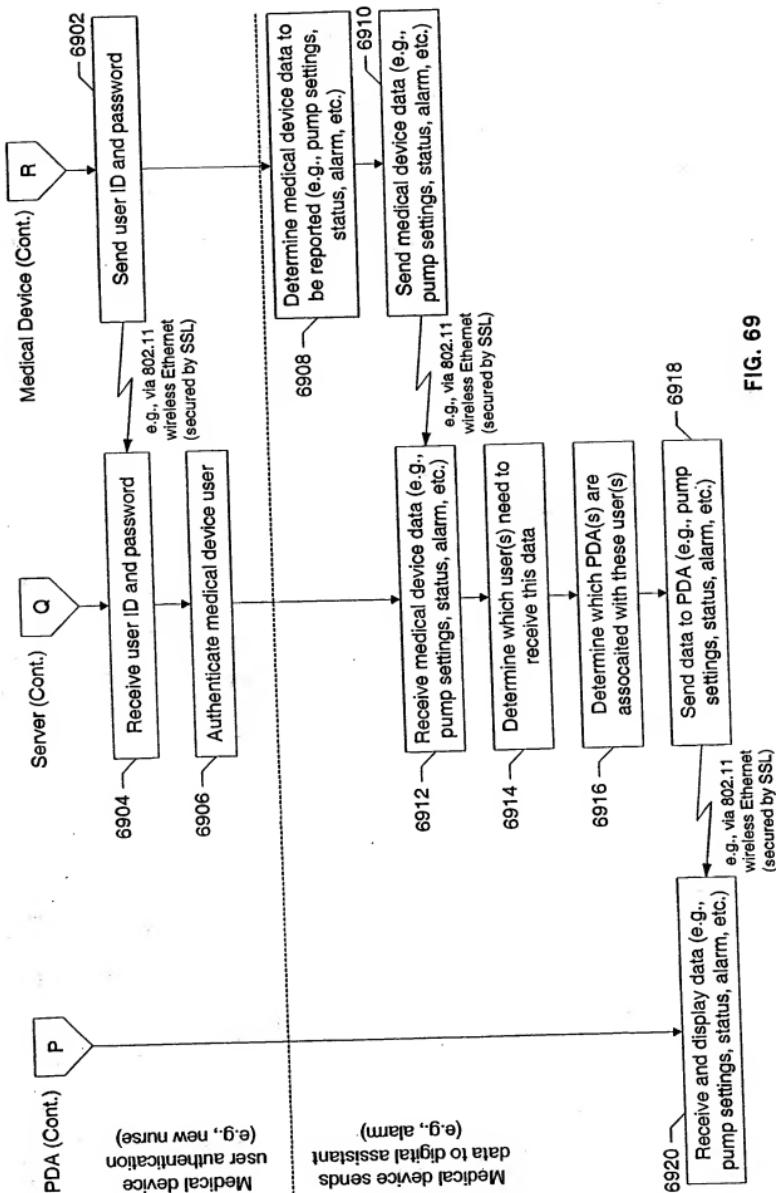


FIG. 67





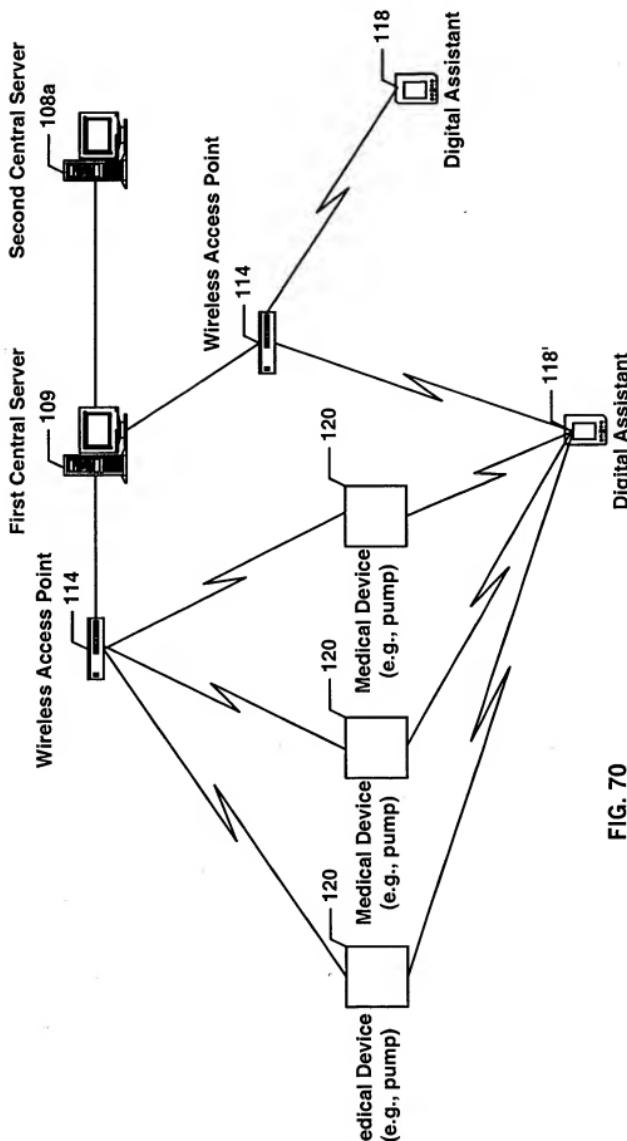


FIG. 70